

GILL

planned lighting



GILL GLASS and FIXTURE COMPANY

established 1876

PHILADELPHIA

∞ IT IS OUR PURPOSE:- ∞

*to produce the best possible lighting
equipment — engineered according to
good lighting practice — at a price
the customer can afford to pay.*

Gill Glass & Fixture Company

C. A. Gill,
President



GILL

planned lighting luminaires



MEMBER, FLEUR-O-LIER MANUFACTURERS. LUMINAIRES ALREADY CERTIFIED ARE SO INDICATED BY PROPER LABEL AS ILLUSTRATED.

ALL LOUVER ASSEMBLIES ARE FABRICATED OF 20 GAUGE BONDERIZED STEEL FINISHED IN A SEMI-FLAT HIGH TEMPERATURE "BAKED-ON" WHITE ENAMEL.

Material and Finish

ALL END PLATES, BODIES—WITH THE EXCEPTION OF THE No. 324 BODY WHICH IS 20 GAUGE—TROFFERS, REFLECTORS AND PARTS ARE FORMED AND DIE STAMPED OF 18 GAUGE BONDERIZED STEEL, FINISHED WITH HIGH TEMPERATURE "BAKED-ON" WHITE ENAMEL.

ALL CURVED GLASS SIDE REFLECTORS HAVE FUSED WHITE INNER REFLECTING SURFACES.

I.B.E.W.

UNION WIRED BY INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS.

Ballasts

FIXTURES ARE FURNISHED WITH HIGH POWER FACTOR TU-LAMP OR THREE-LAMP BALLASTS.

Maintenance

ALL LOUVER ASSEMBLIES ARE DOUBLE HINGED TO BE SWUNG DOWN FROM EITHER SIDE OR REMOVED ENTIRELY.

ALL GLASS OR METAL SIDE REFLECTORS ON THE No. 324-No. 344 SERIES CAN BE REMOVED FROM THE TOP OR BOTTOM OF THE LUMINAIRE.

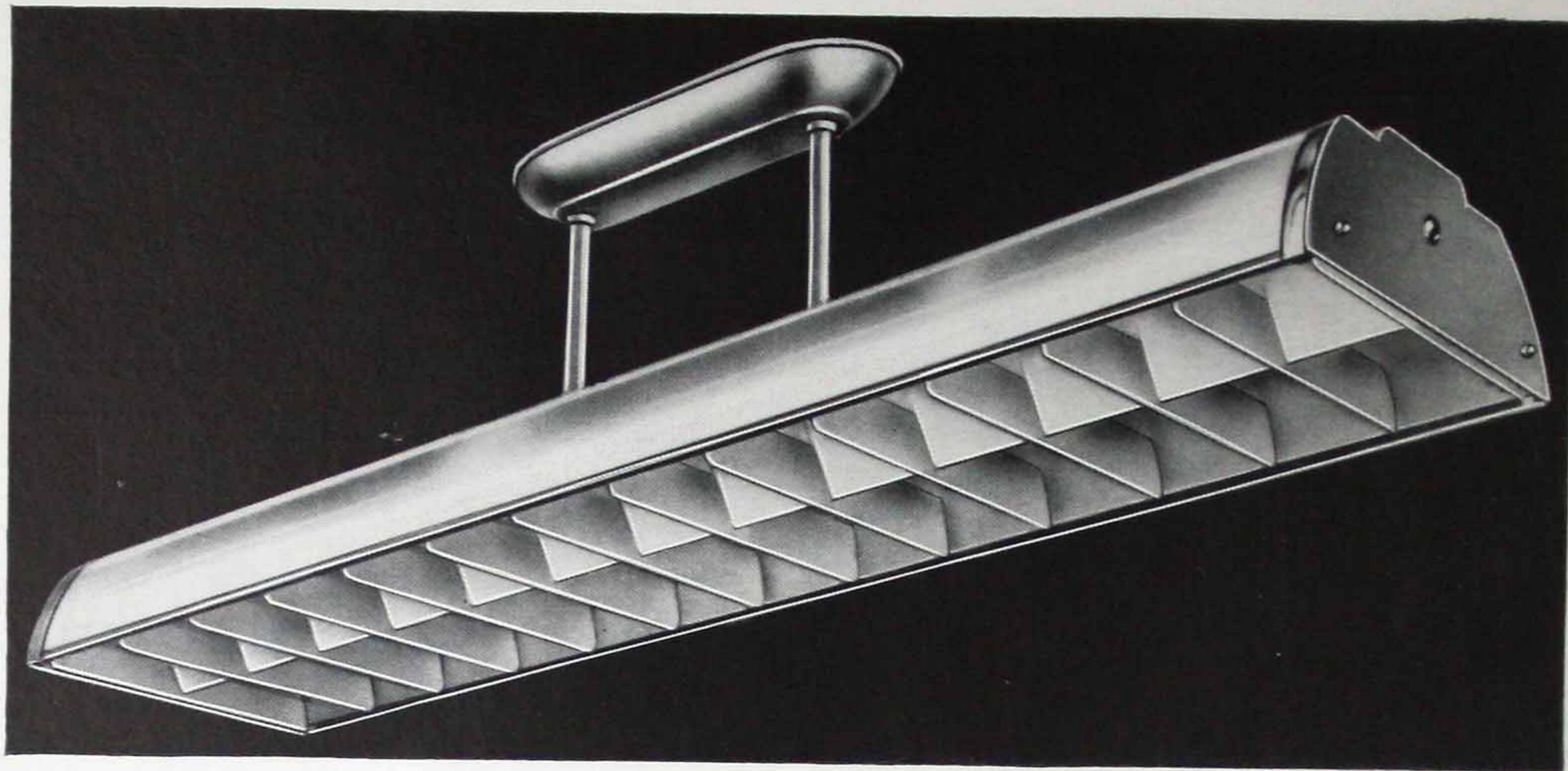
ALL STARTERS IN THE No. 324-No. 344 SERIES ARE LOCATED IN THE TOP OF THE WIRING CHANNEL—FOR SURFACE MOUNTING THESE STARTER SOCKETS CAN BE REVERSED SO THAT THE STARTERS ARE REMOVABLE FROM BELOW.

U. L.

UNDERWRITERS LABORATORIES APPROVED.



MEMBER, COMMERCIAL & INDUSTRIAL LIGHTING DIVISION OF NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.



Catalog No. 324

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS 4 starters.
- Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 48".
- Net weight 25 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

UTILIZATION FACTORS FOR CAT. NO. 324 TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	C O E F F I C I E N T O F U T I L I Z A T I O N							
J. 0.6	0.29	0.25	0.24	0.25	0.23	0.22	0.22	0.20
I. 0.8	0.35	0.32	0.30	0.31	0.29	0.27	0.26	0.24
H. 1.0	0.39	0.36	0.34	0.34	0.32	0.30	0.29	0.27
G. 1.25	0.42	0.40	0.37	0.37	0.35	0.33	0.31	0.30
F. 1.5	0.45	0.42	0.39	0.39	0.37	0.35	0.33	0.31
E. 2.0	0.49	0.46	0.44	0.43	0.40	0.38	0.36	0.34
D. 2.5	0.53	0.49	0.47	0.45	0.43	0.41	0.38	0.36
C. 3.0	0.55	0.52	0.49	0.47	0.44	0.42	0.39	0.37
B. 4.0	0.58	0.55	0.52	0.49	0.47	0.45	0.41	0.40
A. 5.0	0.59	0.57	0.55	0.51	0.48	0.47	0.41	0.41

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

GILL

planned lighting luminaires

ELECTRICAL TESTING LABORATORIES, INC.

NEW YORK, N. Y.

REPORT NO. 324352

ORDER NO. 16522-L

PLATE NO. 54434

CANDLEPOWER DISTRIBUTION

CAT. NO. 324 SUSPENSION-MOUNTED FLUORESCENT LUMINAIRE*

TYPE - GENERAL DIFFUSE

Tested under Fleur-O-Lier Specifications

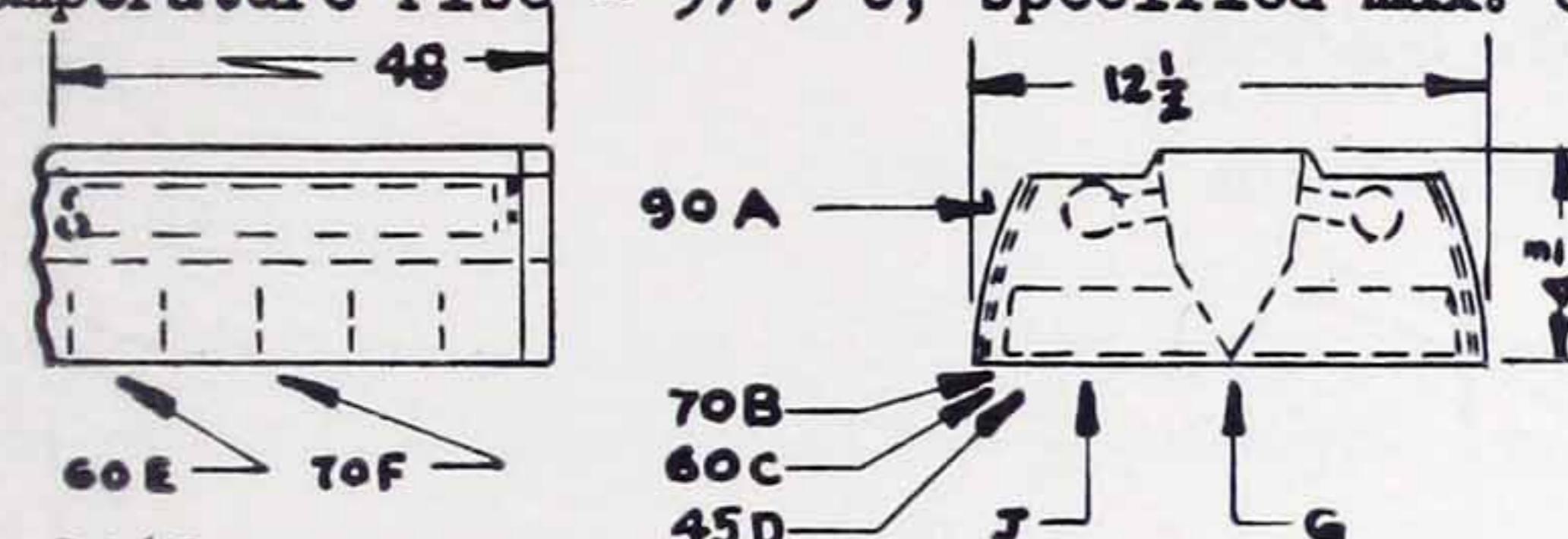
Rendered to Gill Glass & Fixture Co.

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens;
T-12 White Fluorescent.

Unit - Synthetic enamelled metal housing and cross
louvers; reflectance 0.82; glass side panel white
ceramic coated inside.

Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit;
A-A normal, B-B parallel and C-C 45° to the tubes.

Max. temperature rise - 59.5 C; specified max. 65.0 C



*ETL No. 1462

LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 2.5 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 2.5 FEET	ZONAL LUMENS
180° IEN.	650		90° HSR.	55.0	
175°	640	61	85°	49.9	55
165°	630	178	75°	70.0	74
155°	595	275	65°	110	109
145°	530	333	55°	206	185
135°	442	342	45°	411	318
125°	336	302	35°	610	383
115°	236	234	25°	725	336
105°	185	196	15°	795	225
95°	80.0	87	5°	815	77
			0° NADIR	815	

LIGHT FLUX VALUES					
ZONE	LUMENS		PER CENT TOTAL LUMENS BARE LAMP	PER CENT LIGHT OUTPUT	
	LAMP	LUMINAIRE			
0°-60°		1524	33.0	82.0	
0°-90°		1762	38.5		
90°-180°		2008	43.5		
0°-180°	4600	3770	82.0		

LUMINAIRE BRIGHTNESS
0°-40° 1021 22.0

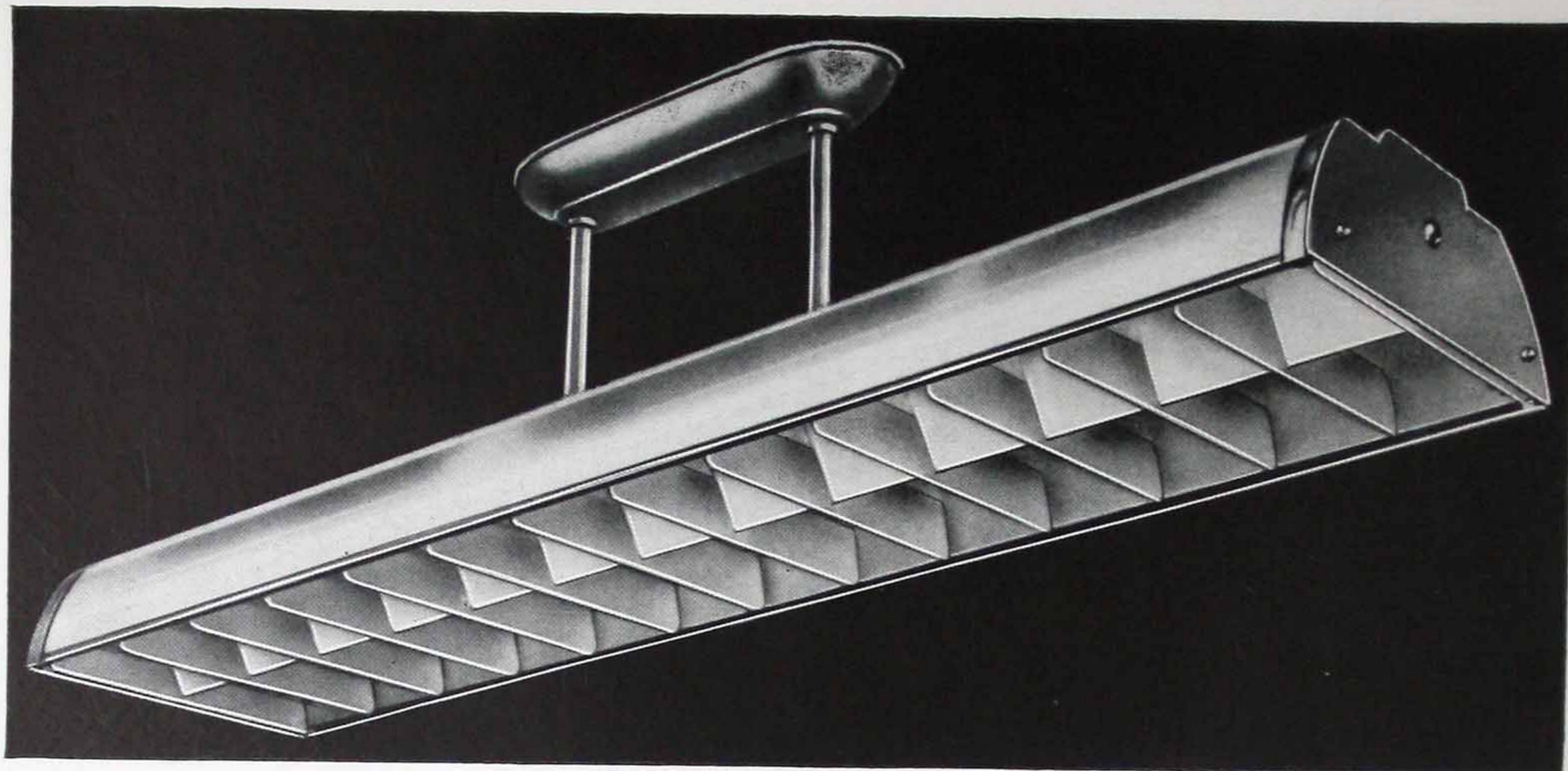
CANDLEPOWER PER SQUARE INCH
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

LOCATIONS	A	B	C	D	E	F	G	H	I	J	K	L	M
CP. PER SQ. IN.	1.1	0.4	0.5	2.1	0.7	0.8	0.1	-	-	4.2	-	-	-

TESTED BY 78 PLOTTED BY Cr COMPUTED BY DM CHECKED BY Sc ISSUED February 10, 1948

APPROVED BY William Smith
ENGINEER IN CHARGE OF PHOTOMETRY

Caroline E. Horn
IN CHARGE OF TEST



Catalog No. 324-M
(with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect, pendant luminaire with curved metal side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS-4 starters.
- Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 48".
- Net weight 25 lbs. (less Hanger). Hangers shown on Page 32.
- Top reflector plates are available—see page 34.

**UTILIZATION FACTORS FOR
CAT. NO. 324M TWO 40-WATT FLUORESCENT LUMINAIRE**

CEILING	75%			50%			30%						
WALLS	50%	30%	10%	50%	30%	10%	30%	10%					
ROOM INDEX	C	O	E	F	F	U	T	I	L	I	Z	A	T
J.	0.6	0.31	0.27	0.26	0.27	0.26	0.24	0.24	0.22				
I.	0.8	0.36	0.34	0.32	0.33	0.31	0.30	0.29	0.27				
H.	1.0	0.40	0.38	0.37	0.36	0.34	0.34	0.32	0.30				
G.	1.25	0.44	0.42	0.39	0.39	0.37	0.36	0.34	0.33				
F.	1.5	0.47	0.44	0.41	0.41	0.39	0.38	0.36	0.35				
E.	2.0	0.50	0.47	0.45	0.44	0.42	0.41	0.38	0.37				
D.	2.5	0.54	0.50	0.48	0.47	0.45	0.43	0.40	0.39				
C.	3.0	0.55	0.53	0.50	0.48	0.46	0.45	0.41	0.40				
B.	4.0	0.58	0.55	0.53	0.50	0.48	0.47	0.43	0.42				
A.	5.0	0.59	0.57	0.55	0.52	0.50	0.48	0.44	0.43				

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

GILL

planned lighting luminaires

REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330424

Order No. 19249-L

Plate No. 55635

Date March 3, 1949

CANDLEPOWER DISTRIBUTION

CAT. NO. 324M PENDANT-MOUNTED FLUORESCENT LUMINAIRE*

TYPE - G-30-20-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

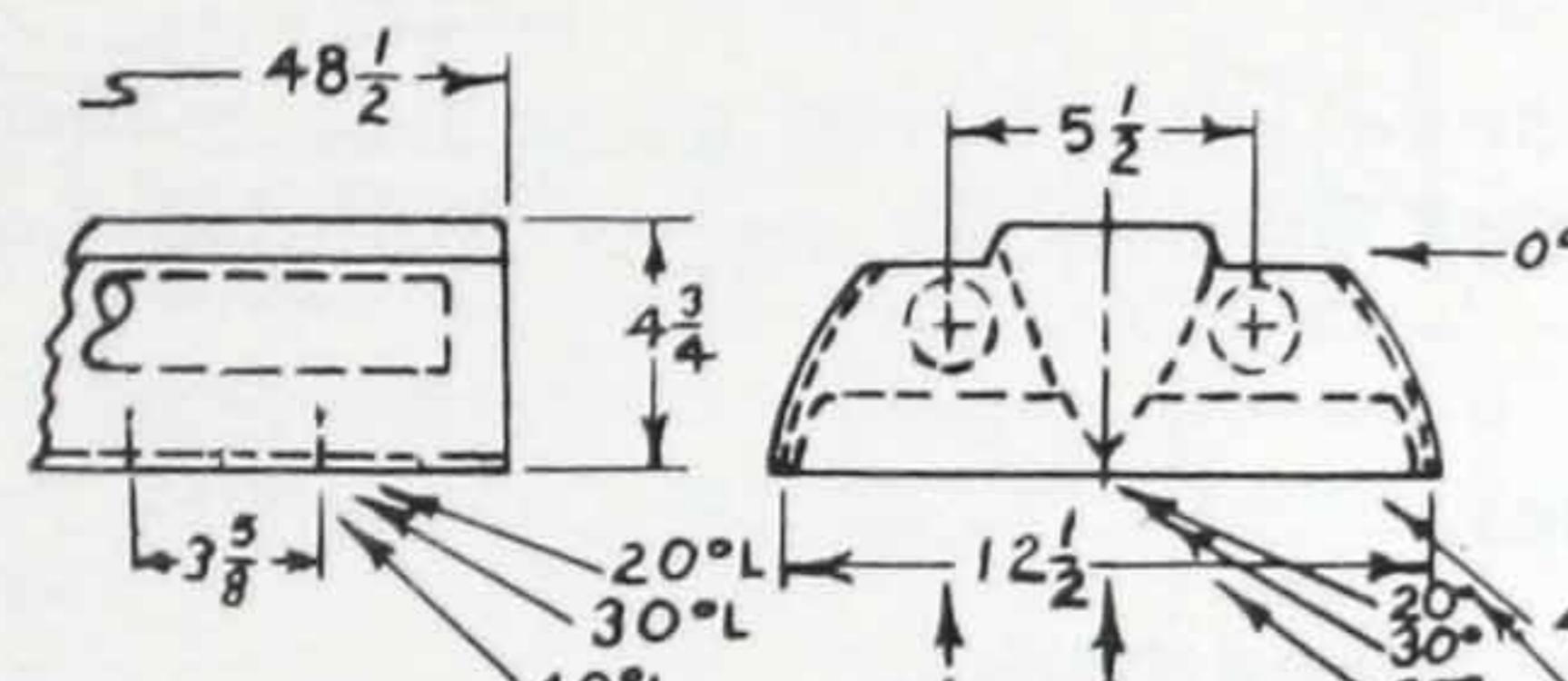
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and cross louver, reflectance 0.80; metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

*ETL No. 1752



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	620		90° HOR.	22.2	
175°	620	59	85°	27.1	30
165°	600	170	75°	66.0	70
155°	560	259	65°	127	126
145°	491	308	55°	259	232
135°	380	294	45°	470	364
125°	266	238	35°	665	418
115°	183	182	25°	775	358
105°	105	111	15°	840	238
95°	42.0	46	5°	870	83
			0° NADIR	875	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	1919	41.5
0°-40°	1097	24.0	90°-180°	1667	36.5
0°-60°	1693	37.0	0°-180°	3586	78.0

LUMINAIRE BRIGHTNESS

Shielding Angles 34-1/2° & 23°
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

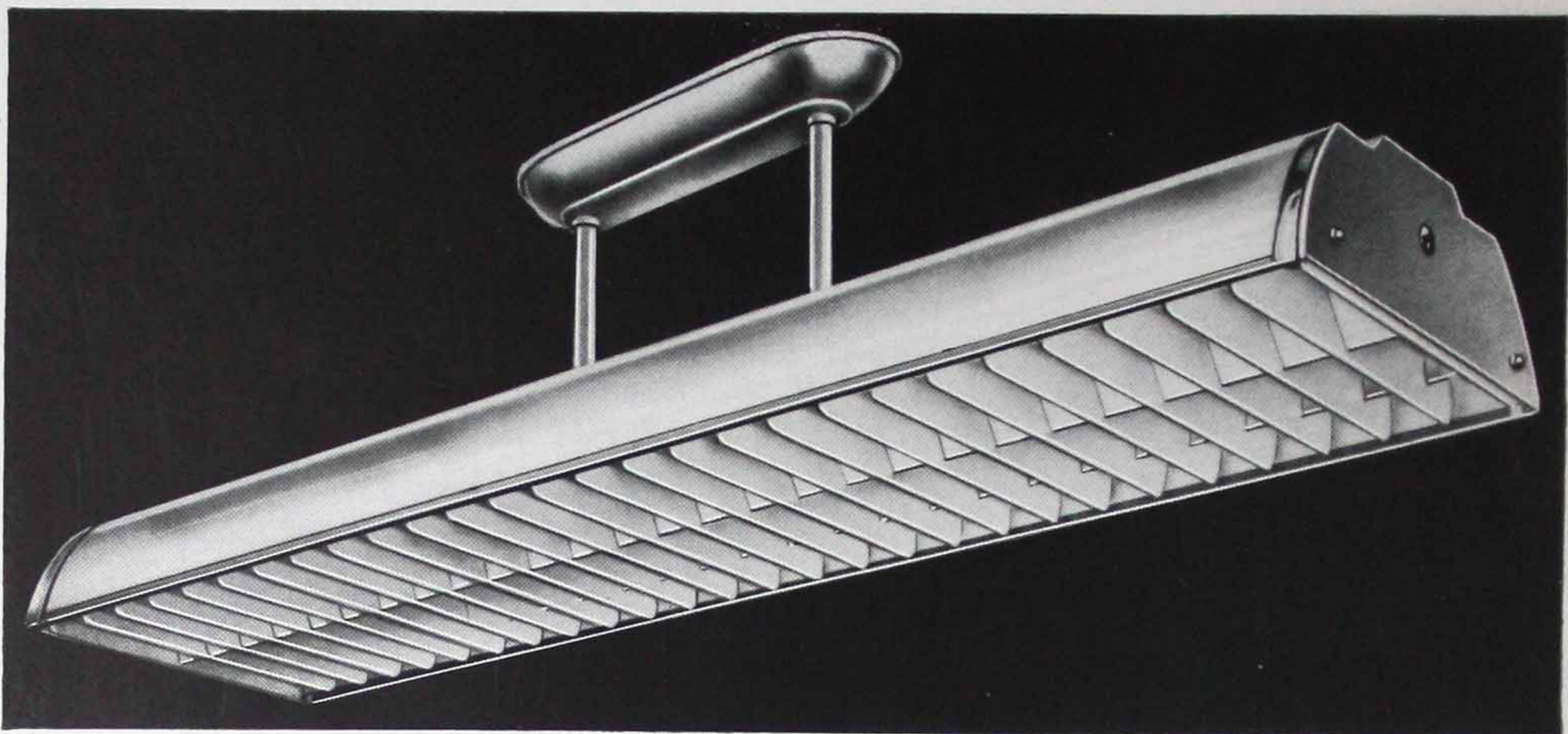
ANGLES C/Sq. In.	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	0	J
FOOT LAMBERTS	0.54	0.65	0.78	0.93	1.7	2.8	0.55	1.2	2.6	0.26	4.2

TESTED BY WJ PLOTTED BY JT COMPUTED BY CW CHECKED BY SC ISSUED March 3, 1949

REPORT APPROVED BY William S. Smith
ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horn
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.



Catalog No. 324 $\frac{1}{2}$

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct-indirect pendant luminaire with curved glass side reflectors, for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 12 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

UTILIZATION FACTORS FOR CAT. NO. 324 $\frac{1}{2}$ TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%	
	WALLS	50%	30%	10%	50%	30%	10%	30%
ROOM INDEX	C	O	E F F I C I E N T	T	O	F	U	T I L I Z A T I O N
J. 0.6	0.26		0.23	0.21	0.23	0.21	0.19	0.19
I. 0.8	0.32		0.29	0.27	0.28	0.26	0.24	0.23
H. 1.0	0.35		0.32	0.31	0.31	0.28	0.27	0.26
G. 1.25	0.39		0.36	0.33	0.34	0.31	0.30	0.28
F. 1.5	0.42		0.38	0.36	0.36	0.33	0.32	0.29
E. 2.0	0.45		0.42	0.40	0.39	0.36	0.34	0.32
D. 2.5	0.49		0.45	0.42	0.41	0.39	0.37	0.34
C. 3.0	0.51		0.47	0.45	0.43	0.40	0.39	0.35
B. 4.0	0.54		0.51	0.48	0.45	0.43	0.41	0.37
A. 5.0	0.55		0.53	0.50	0.47	0.44	0.43	0.38

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

GILL

planned lighting luminaires

REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330342

Order No. 19249-L

Plate No. 55608

Date February 25, 1949

CANDLEPOWER DISTRIBUTION
CAT. NO. 324-1/2 PENDANT-MOUNTED FLUORESCENT LUMINAIRE*

TYPE - G-40-40-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

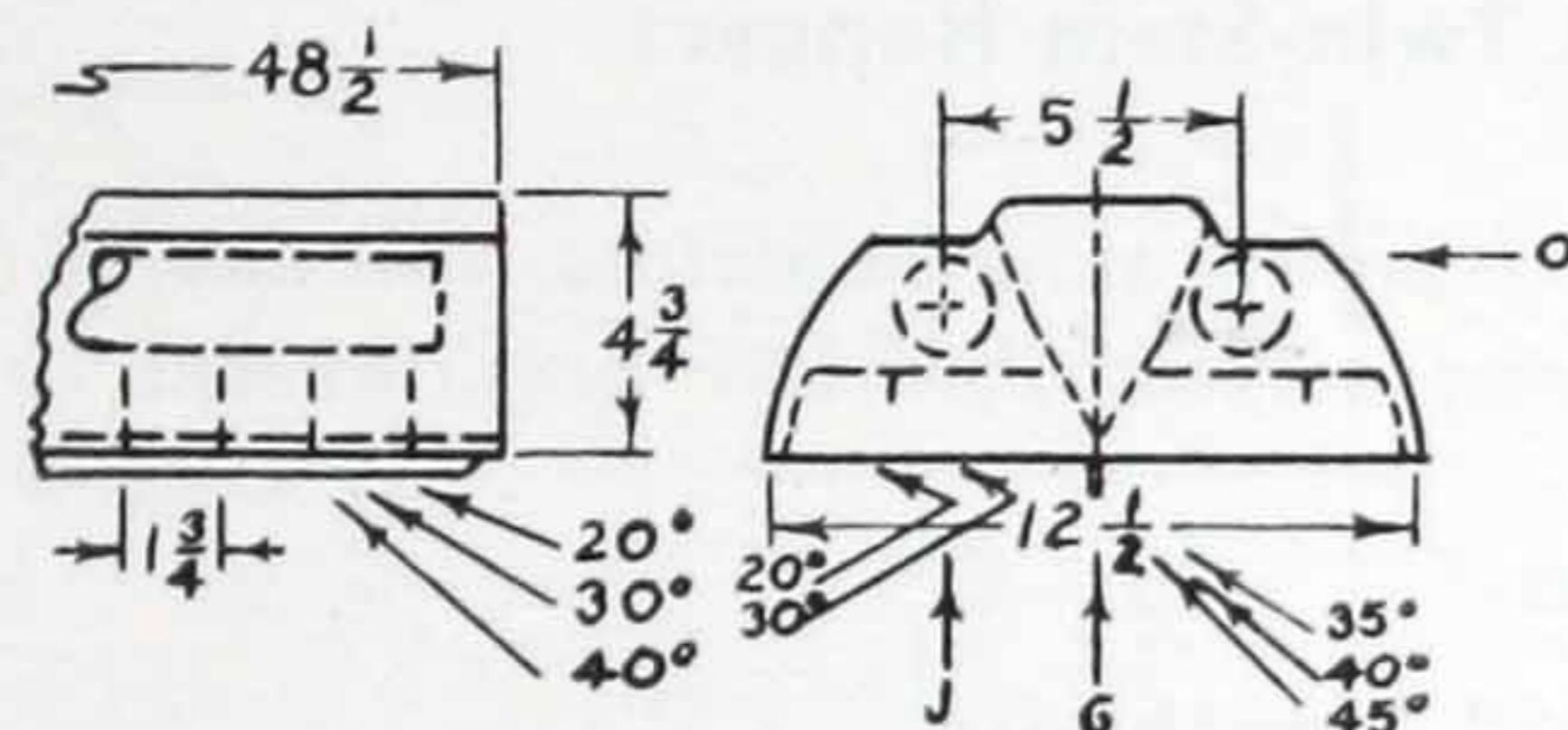
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing, reflectance 0.80; cross louvers, reflectance 0.86; glass sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

*ETL No. 1752



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	665		90° HOR.	57	
175°	670	64	85°	53.0	58
165°	665	188	75°	75.5	80
155°	615	285	65°	117	116
145°	550	345	55°	171	153
135°	449	347	45°	286	221
125°	329	295	35°	505	317
115°	236	234	25°	685	317
105°	151	160	15°	810	229
95°	77.0	84	5°	855	81
			0° NADIR	860	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	1572	34.0
0°-40°	944	20.5	90°-180°	2002	43.5
0°-60°	1434	31.0	0°-180°	3574	77.5

LUMINAIRE BRIGHTNESS											
Shielding Angles 41°C-41°L THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW											
ANGLES	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	G	J
deg Sq In.	1.0	0.41	0.71	0.81	0.90	1.2	0.48	0.56	0.66	0.30	4.1

TESTED BY EJ

PLOTTED BY JF

COMPUTED BY CW

CHECKED BY ew

ISSUED February 25, 1949

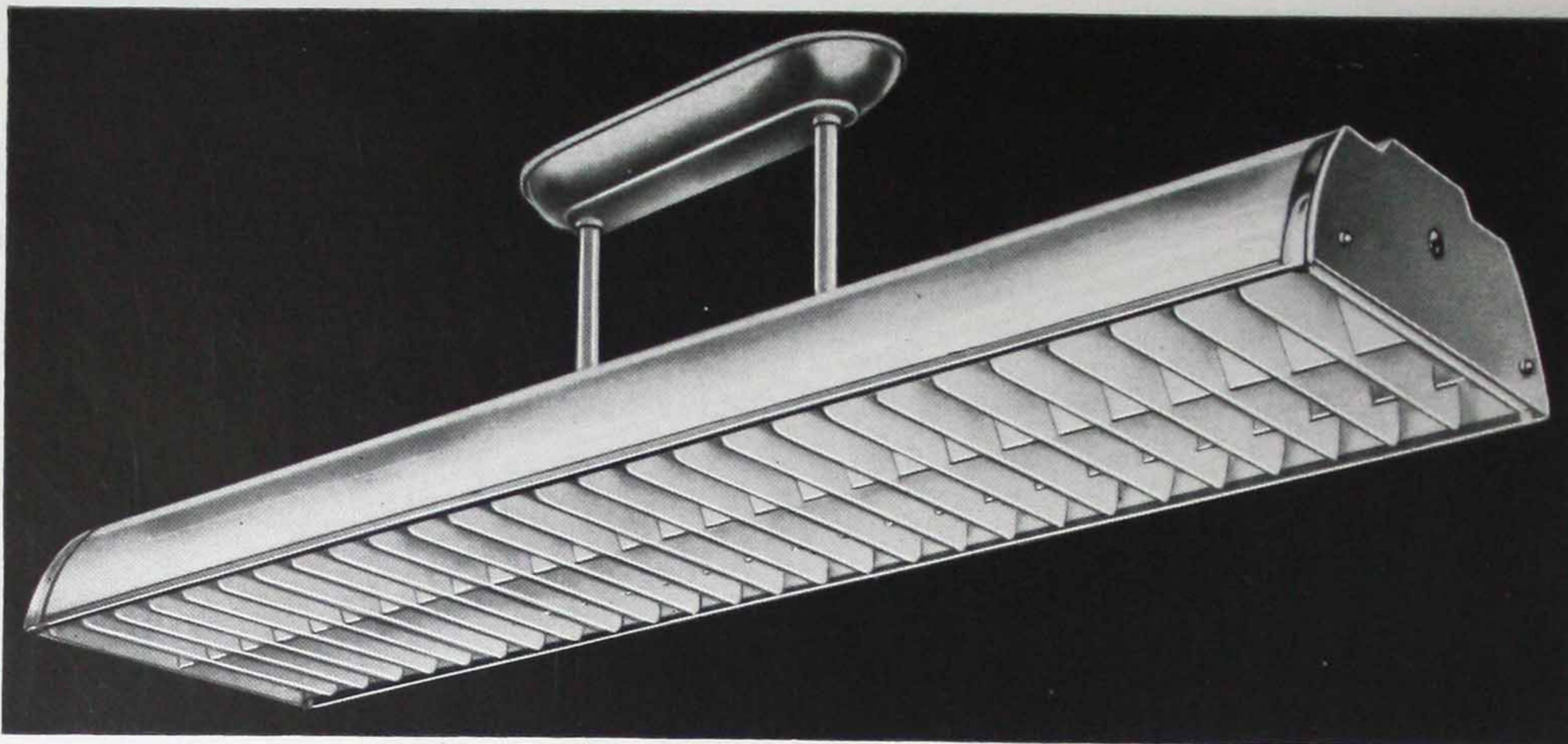
REPORT APPROVED BY W. E. Horn

ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horn
IN CHARGE OF TEST

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220-B



Catalog No. 324½-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect, pendant luminaire with curved metal side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 12½" — Depth 5½" — Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

UTILIZATION FACTORS FOR CAT. NO. 324½M TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	COEFFICIENT OF UTILIZATION							
J. 0.6	0.27	0.24	0.22	0.24	0.22	0.21	0.21	0.19
I. 0.8	0.32	0.30	0.28	0.29	0.27	0.26	0.25	0.23
H. 1.0	0.36	0.33	0.32	0.32	0.30	0.29	0.28	0.26
G. 1.25	0.39	0.37	0.35	0.35	0.32	0.31	0.30	0.28
F. 1.5	0.42	0.39	0.37	0.36	0.34	0.33	0.31	0.30
E. 2.0	0.45	0.42	0.40	0.39	0.37	0.36	0.33	0.32
D. 2.5	0.48	0.45	0.43	0.42	0.40	0.38	0.35	0.34
C. 3.0	0.50	0.47	0.45	0.43	0.41	0.39	0.36	0.35
B. 4.0	0.53	0.50	0.48	0.45	0.43	0.42	0.38	0.37
A. 5.0	0.54	0.52	0.50	0.46	0.44	0.43	0.39	0.38

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

REPORT
Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330343

Order No. 19249-L

Plate No. 55609

Date February 25, 1949

CANDLEPOWER DISTRIBUTION

CAT. NO. 324-1/2M PENDANT-MOUNTED FLUORESCENT LUMINAIRE*

TYPE - G-40-40-1-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

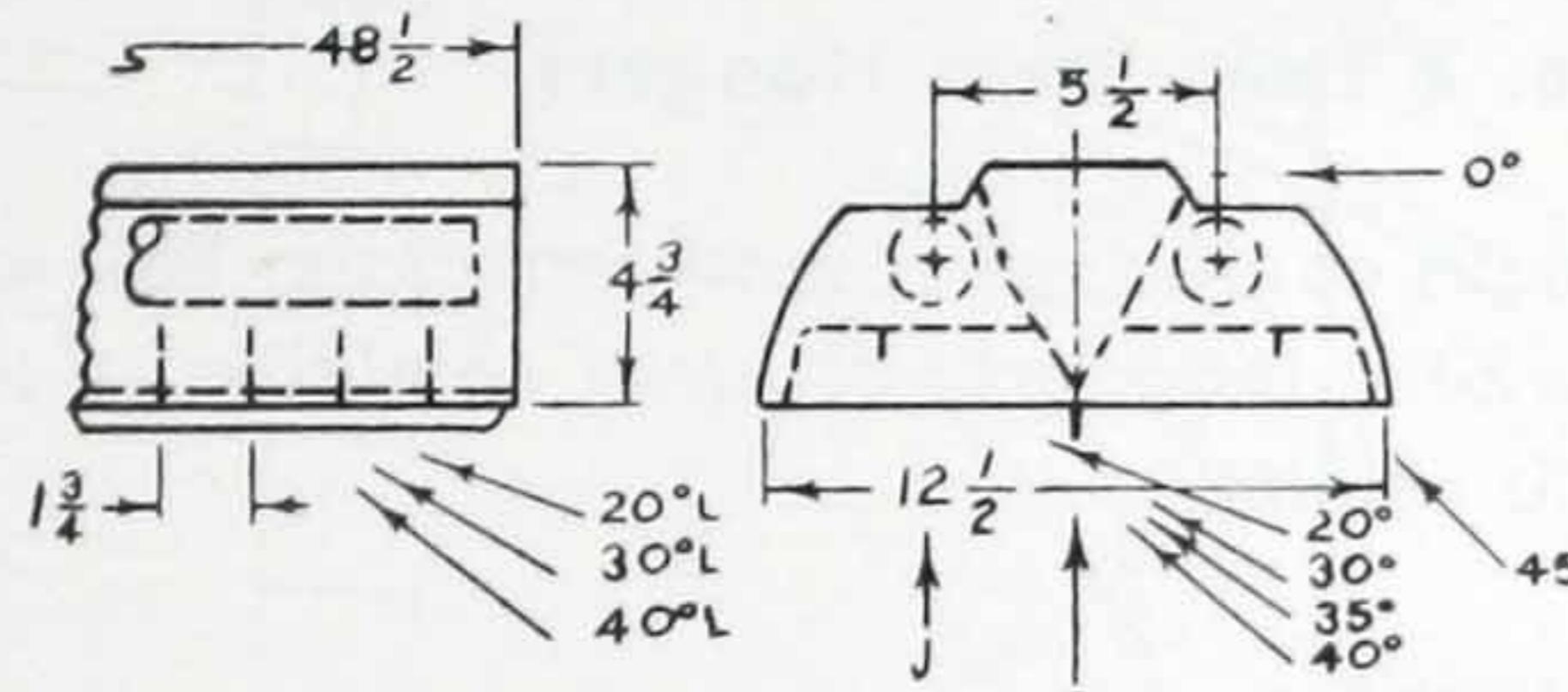
Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12
White Fluorescent.

Unit - Synthetic enameled metal housing, reflectance
0.80; cross louvers, reflectance 0.86; metal sides.

Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit.

Maximum temperature rise - 52 C; specified max. 65 C

*ETL No.1752



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	630		90° HOR.	28.7	
175°	635	61	85°	29.1	32
165°	625	177	75°	61.5	65
155°	575	267	65°	115	114
145°	510	320	55°	185	166
135°	396	306	45°	311	241
125°	279	250	35°	535	336
115°	189	187	25°	720	333
105°	110	116	15°	860	243
95°	45.2	50	5°	920	87
			0° NADIR	925	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	1617	35.5
0°-40°	999	21.5	90°-180°	1734	37.5
0°-60°	1406	30.5	0°-180°	3351	73.0

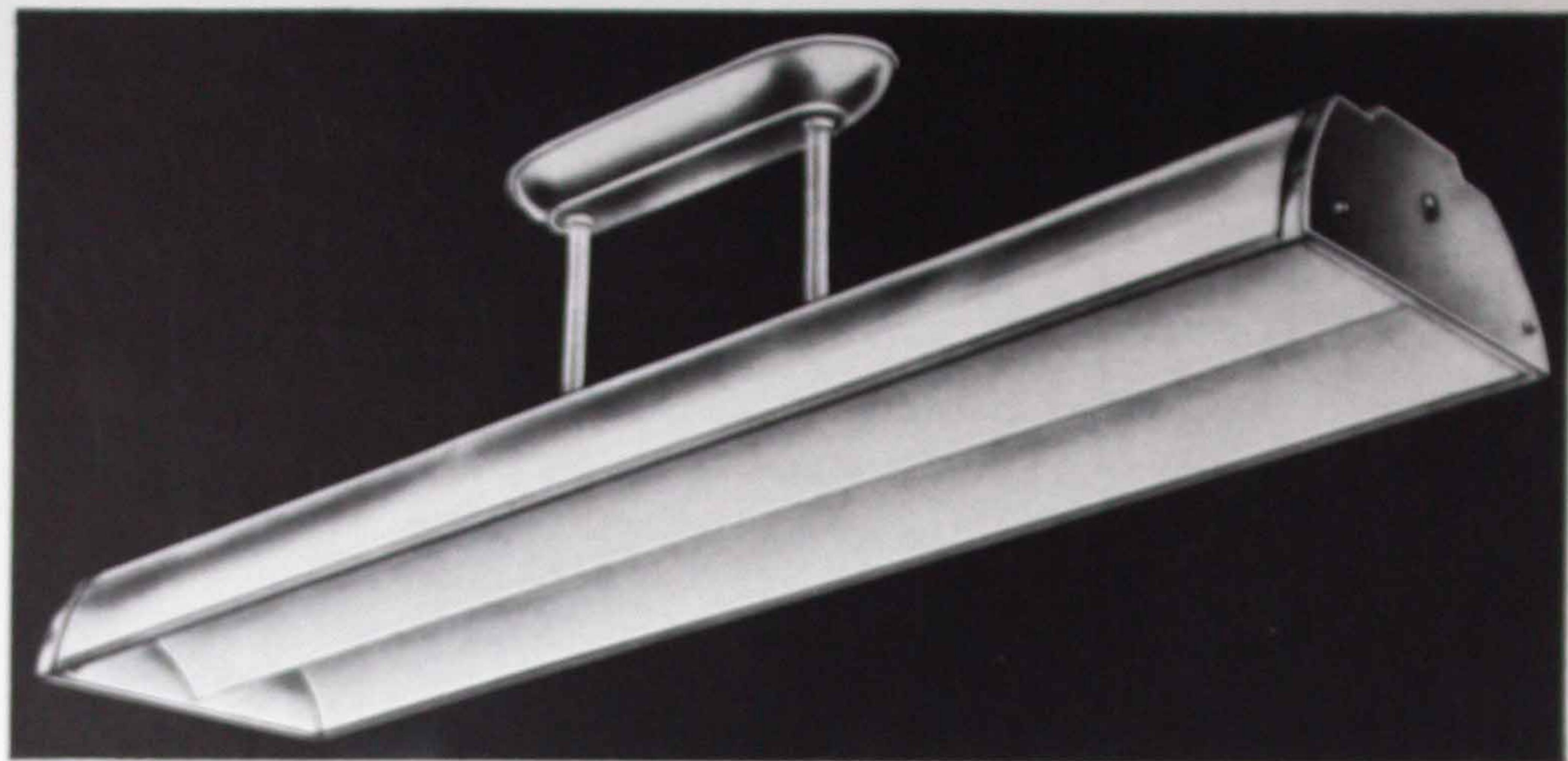
LUMINAIRE BRIGHTNESS											
Shielding Angles 41°C-41°L THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW											
ANGLES C/Sq. In. FOOT LAMBERTO	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	G	J
	0.58	0.48	0.83	0.94	1.0	1.2	0.48	0.57	0.70	0.32	4.2
TESTED BY	WJ	PLOTTED BY	CW	COMPUTED BY	JF	CHECKED BY	dw	ISSUED	February 25, 1949		

REPORT APPROVED BY

William S. Smith
ENGINEER, PHOTOMETRIC DEPARTMENT

Caroline E. Horn
IN CHARGE OF TEST

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Catalog No. 324-S

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct, pendant luminaire with curved glass side reflectors. The top is closed by means of metal reflectors. For use in areas where longitudinal lamp shielding is not critical; but where it is desirable to have some light on the ceiling.

- For use with 2-40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Equipped with FS-4 starters.
- Width 12½"—Depth 4½"—Length 48".
- Net weight 29 lbs. (less hanger). Hangers shown on page 32.

UTILIZATION FACTORS FOR
CAT. NO. 324-S TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	COEFFICIENT OF UTILIZATION							
J. 0.6	0.34	0.33	0.32	0.33	0.32	0.31	0.31	0.29
I. 0.8	0.41	0.39	0.38	0.39	0.38	0.37	0.36	0.35
H. 1.0	0.44	0.43	0.42	0.43	0.42	0.41	0.41	0.40
G. 1.25	0.48	0.47	0.46	0.46	0.45	0.44	0.46	0.43
F. 1.5	0.51	0.48	0.47	0.48	0.47	0.46	0.46	0.45
E. 2.0	0.54	0.53	0.52	0.53	0.51	0.49	0.50	0.48
D. 2.5	0.57	0.55	0.53	0.54	0.52	0.51	0.51	0.50
C. 3.0	0.58	0.56	0.54	0.55	0.53	0.52	0.52	0.51
B. 4.0	0.60	0.59	0.57	0.57	0.55	0.54	0.54	0.53
A. 5.0	0.61	0.60	0.58	0.58	0.57	0.56	0.55	0.54

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

ACCESSORY: Gill Glass and Fixture Company #324-S 2-40 watt lamp fluorescent luminaire. Sides of clear glass, white ceramic coated on inside surface (.23 trans. factor). Wiring channel, "V" shaped longitudinal louver, and top reflectors finished in white synthetic enamel. End pieces finished in metallic gray enamel.

Lamp-4500° White F. Date 8-26-48

Watts-2x40

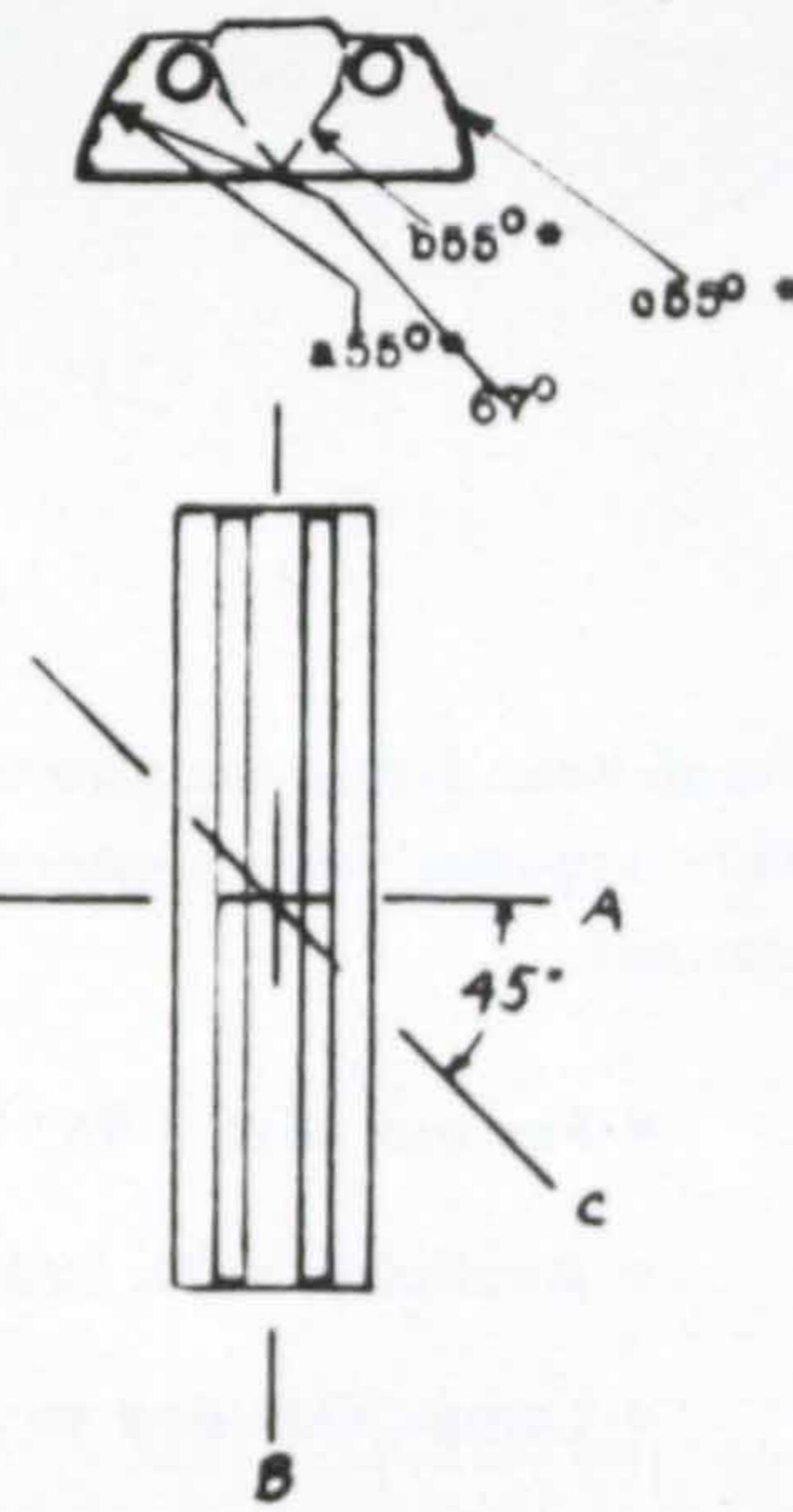
Lumens-4200 Total

Bulb-T-12, 48"

MAXIMUM BRIGHTNESS MEASUREMENTS

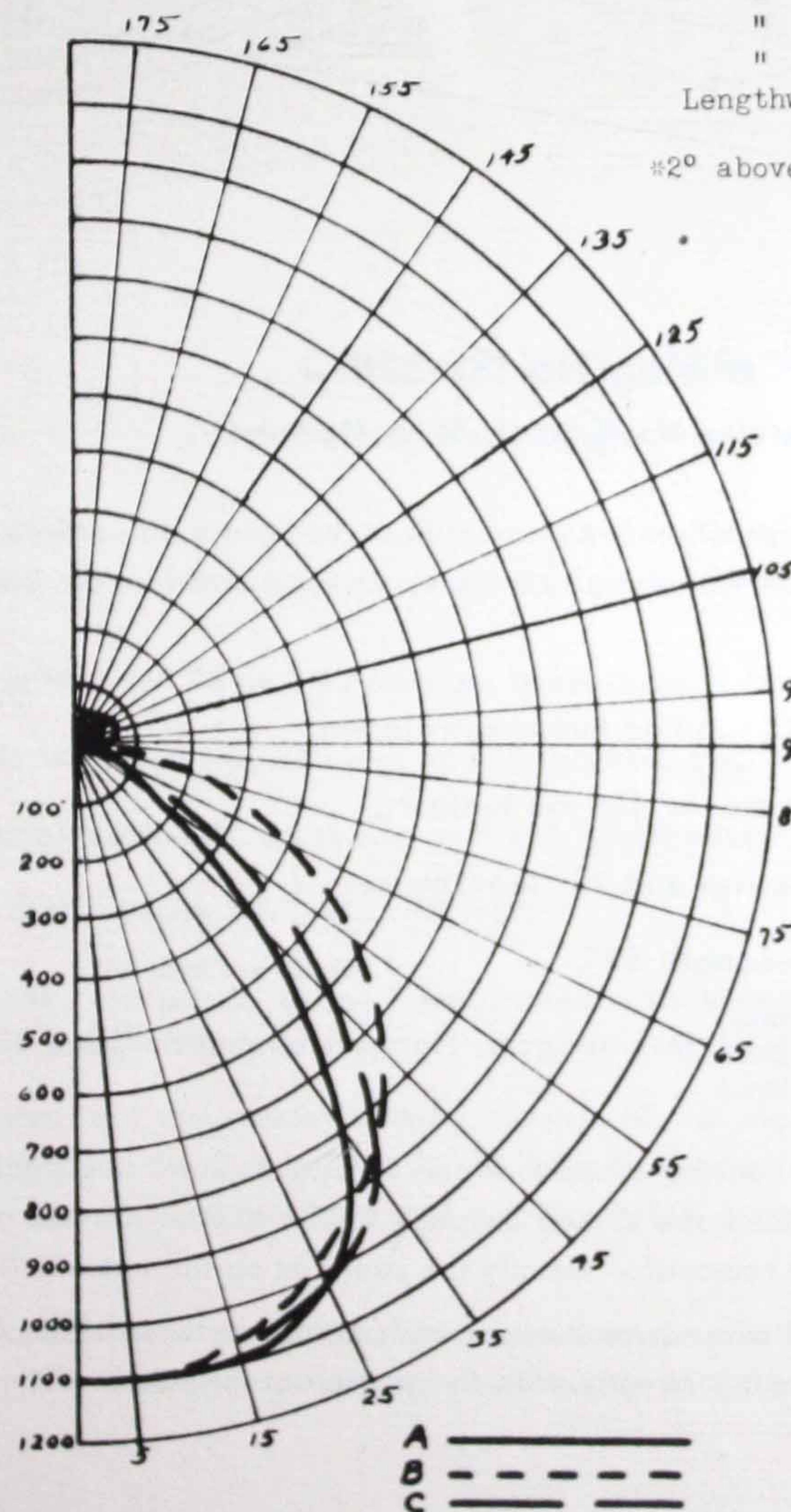
<u>Viewing Direction</u>	<u>Angle</u>	<u>Ft-L</u>
Crosswise	47°	Lamp
"	a55°*	260
"	b55°*	140
"	c55°*	90
"	67°	220
Lengthwise		Lamp

*2° above cutoff

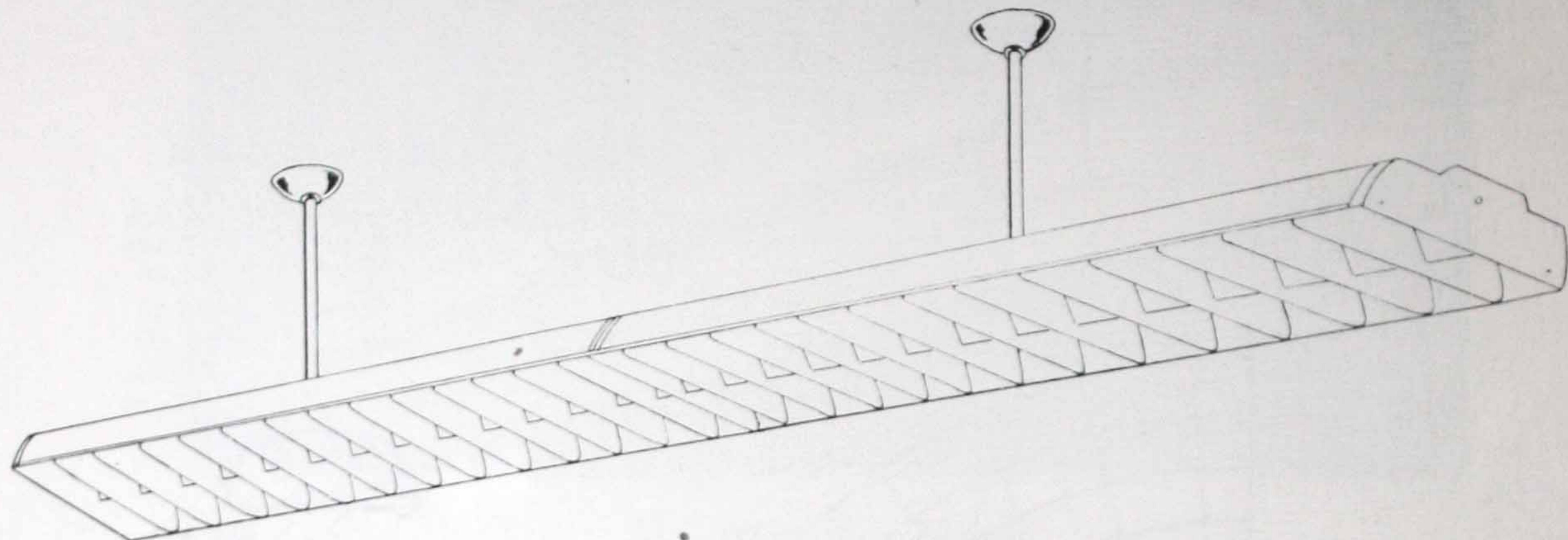


Zone	Lumens	% Total Lamp Lumens
0-40	1423	33.9
0-60	2247	53.5
0-90	2596	61.8
90-180	294	7.0
120-180	158	3.8
0-180	2890	68.8

Unit overall-12 1/2" wide x 4 3/4" deep x 48" long.
Lamps on 5 1/2" centers



GILL GLASS AND FIXTURE COMPANY
PHILADELPHIA, PENNA.



Catalog No. SL-328

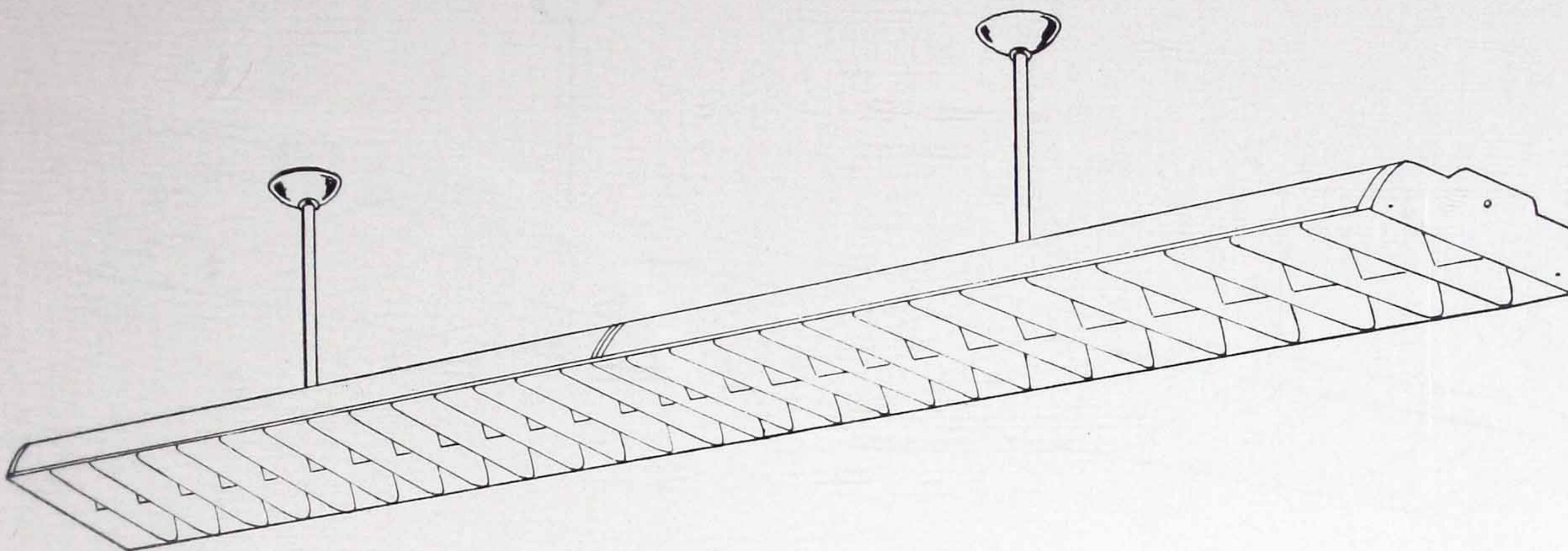
(with Catalog No. 3 Single-Stem Hangers)

An 8' long, luminous, direct-indirect, pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} — 42 \text{ lbs.} \\ 300 \text{ ma} — 45 \text{ lbs.} \\ 425 \text{ ma} — 51 \text{ lbs.} \end{cases}$ less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one 8' long channel this slimline luminaire is identical to the catalog No. 324 luminaire shown on page 2. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the catalog No. 324.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324 series, the intensities and brightnesses varying directly with the amperage selected.

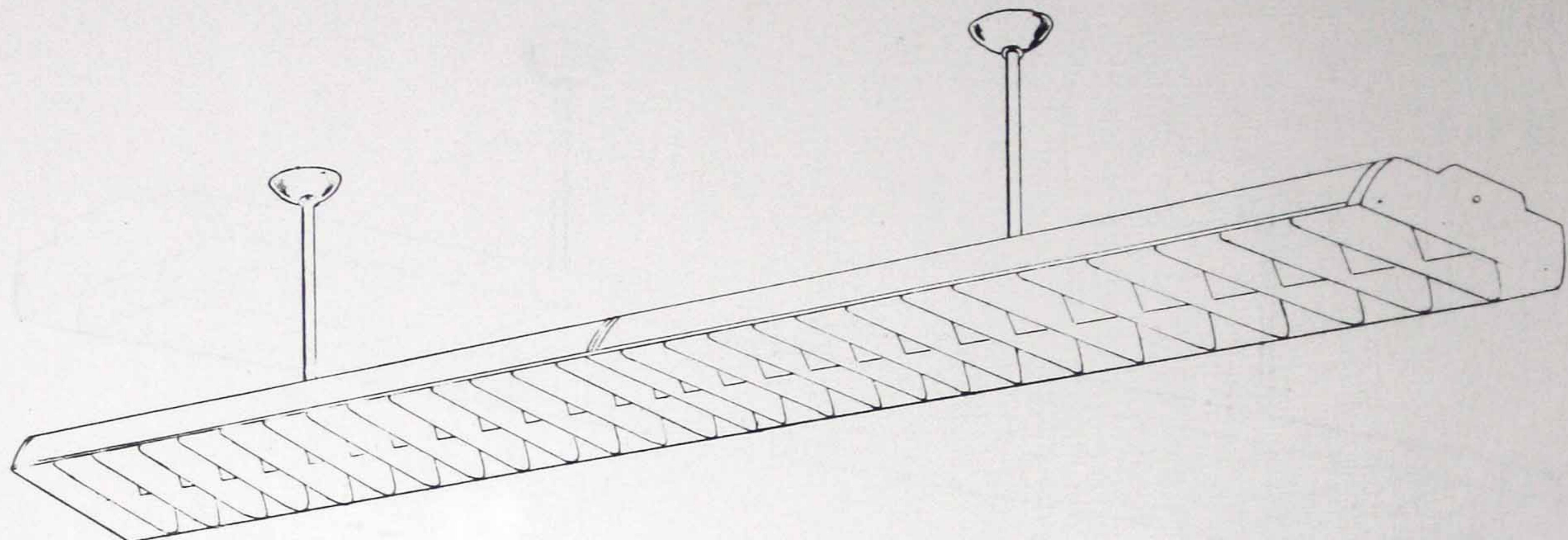
**Catalog No. SL-328-M****(with Catalog No. 3 Single-Stem Hangers)**

An eight foot, direct-indirect pendant luminaire with metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 12½"—Depth 4¾"—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} — 42 \text{ lbs.} \\ 300 \text{ ma} — 45 \text{ lbs.} \\ 425 \text{ ma} — 51 \text{ lbs.} \end{cases}$ less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 324-M luminaire shown on page 4. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 324-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324-M series, the intensities and brightnesses varying directly with the amperage selected.



Catalog No. SL-328 $\frac{1}{2}$

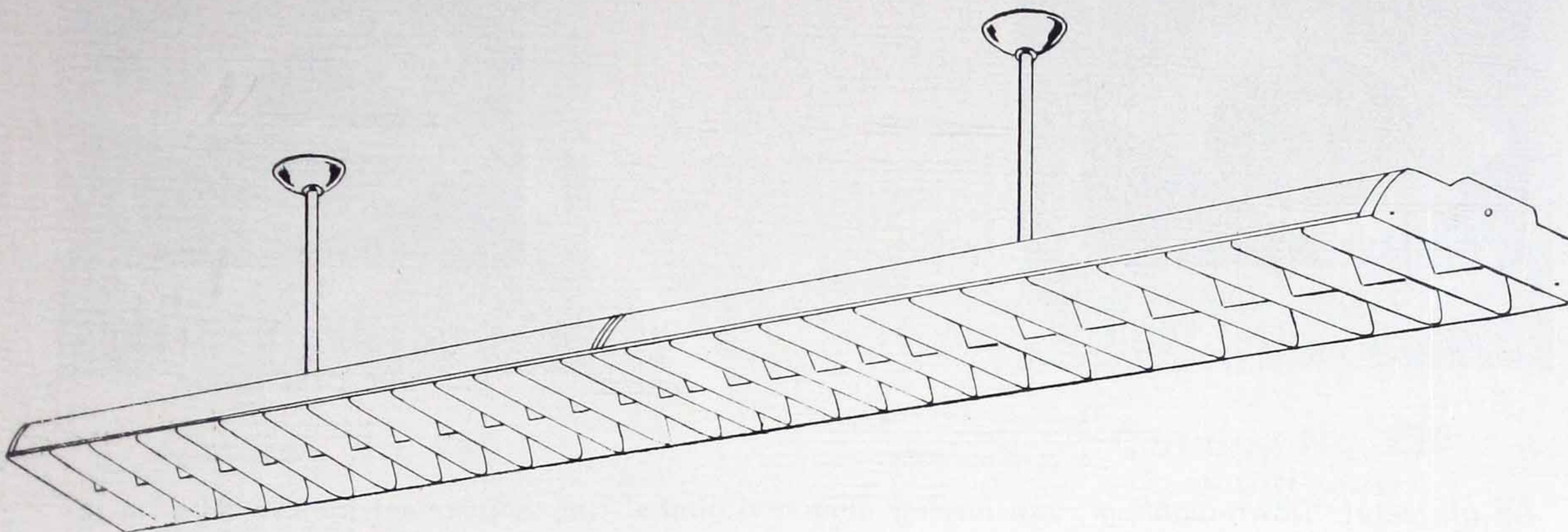
(with Catalog No. 3 Single-Stem Hangers)

An eight foot luminous direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 2-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 12 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} — 45 \text{ lbs.} \\ 300 \text{ ma} — 48 \text{ lbs.} \\ 425 \text{ ma} — 54 \text{ lbs.} \end{cases}$ less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot channel this slimline luminaire is identical to the Catalog No. 324 $\frac{1}{2}$ luminaire shown on page 6. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the Catalog No. 324 $\frac{1}{2}$.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324 $\frac{1}{2}$ series, the intensities and brightnesses varying directly with the amperage selected.



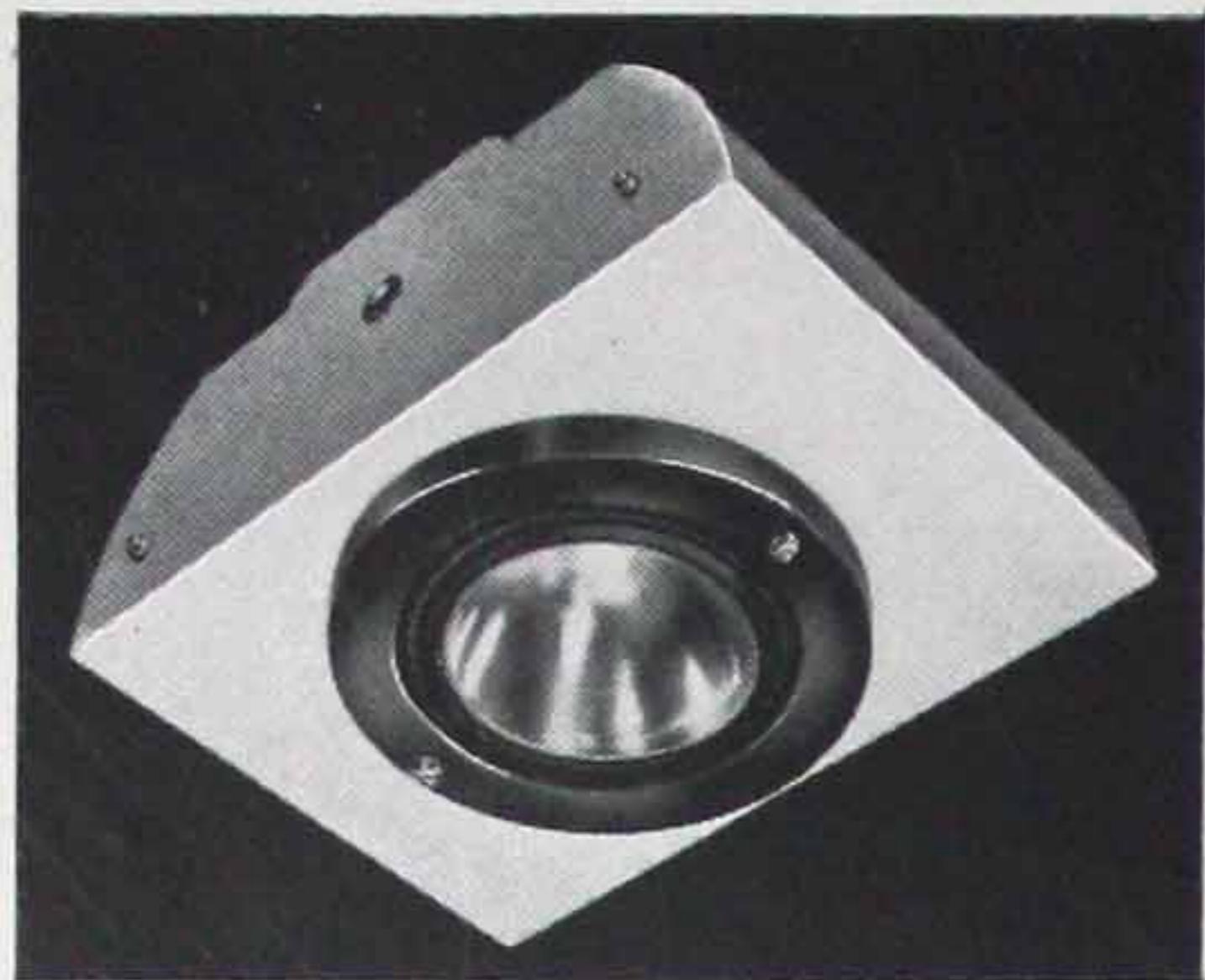
Catalog No. SL-328½-M
(with Catalog No. 3 Single Stem Hanger)

An 8 foot long, direct-indirect pendant luminaire with metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 2-T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 12½"—Depth 5½"—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} — 45 \text{ lbs.} \\ 300 \text{ ma} — 48 \text{ lbs.} \\ 425 \text{ ma} — 54 \text{ lbs.} \end{cases}$ less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one 8 foot long channel this slimline luminaire is identical to the Catalog No. 324½-M luminaire shown on page 8. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 324½-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 324½-M series, the intensities and brightnesses varying directly with the amperage selected.



Catalog No. 150



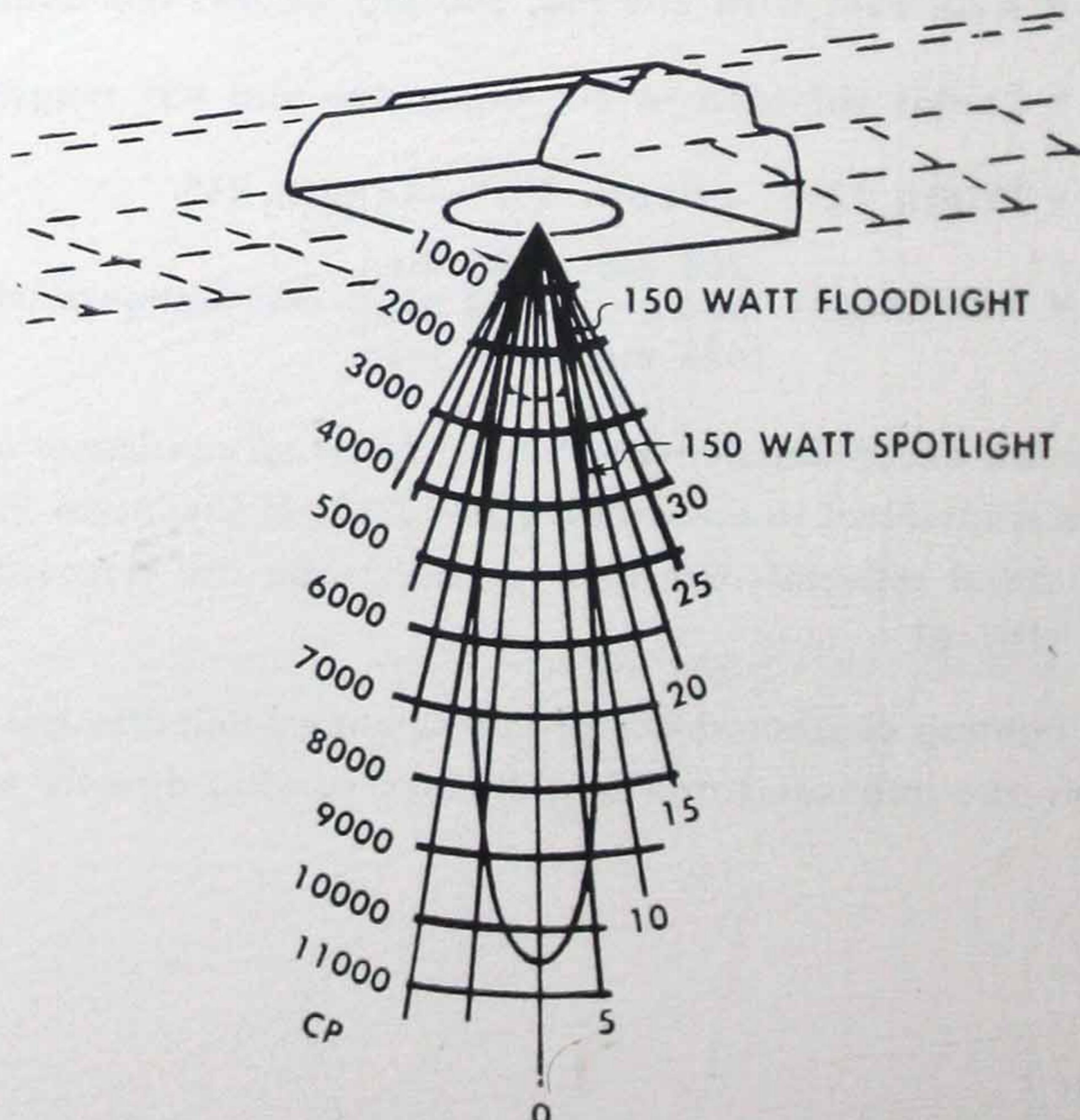
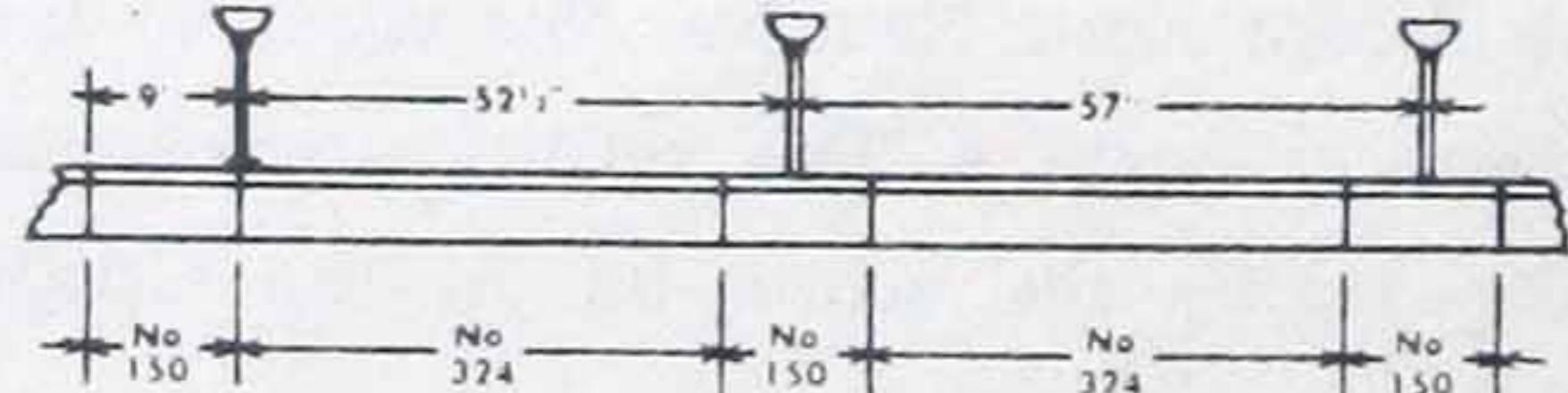
Catalog No. 150

with L-150 Louver

An all metal "Down-Lighting" unit having universal gimbel ring adjustment for use with an incandescent 150 watt PAR "side prong" base incandescent lamp.

For use in conjunction with the No. 324 and SL-328 series of fluorescent luminaires for attachment between units, at the ends of continuous rows, or separately.

- **Width 12 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 9".**
- **Net weight 5 $\frac{1}{2}$ lbs.**
- **Complete with G. E. connector No. 95x931 AWG stranded nickel conductor insulated with silicon treated felted asbestos.**
- **Unit does not include lamp.**





Catalog No. 250



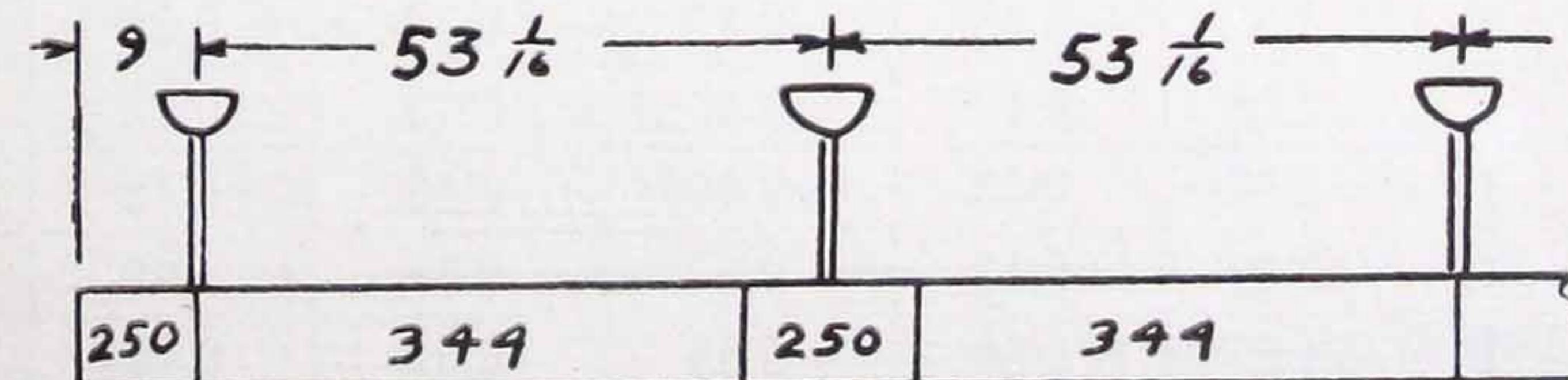
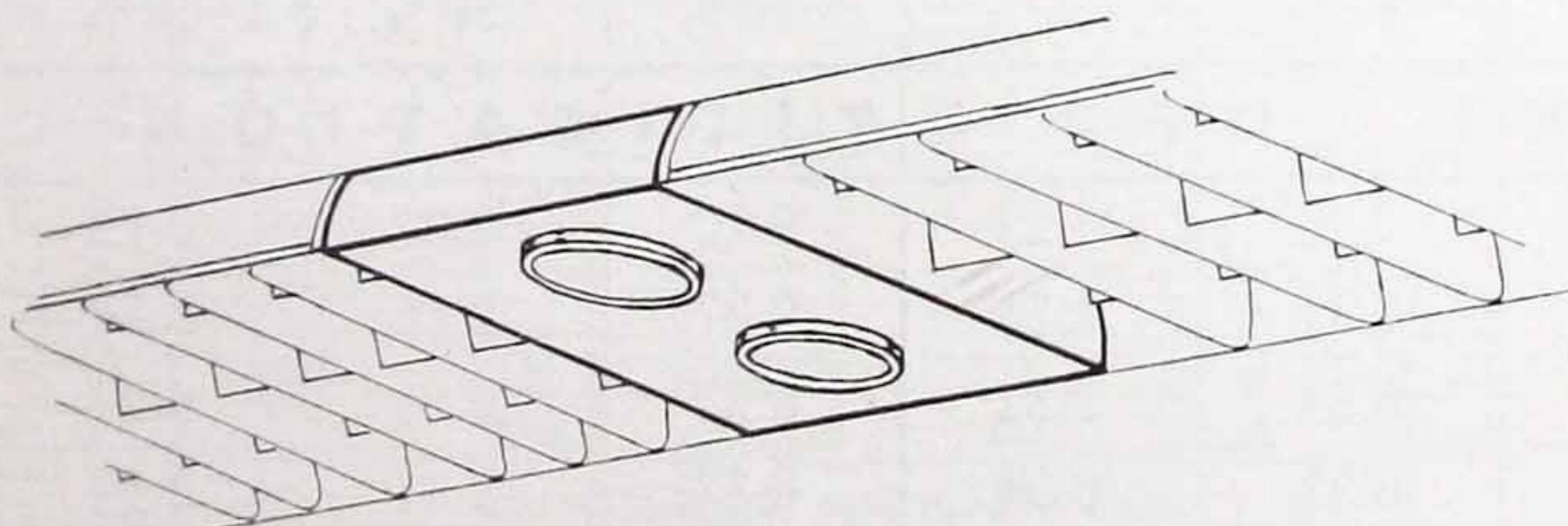
Catalog No. 250

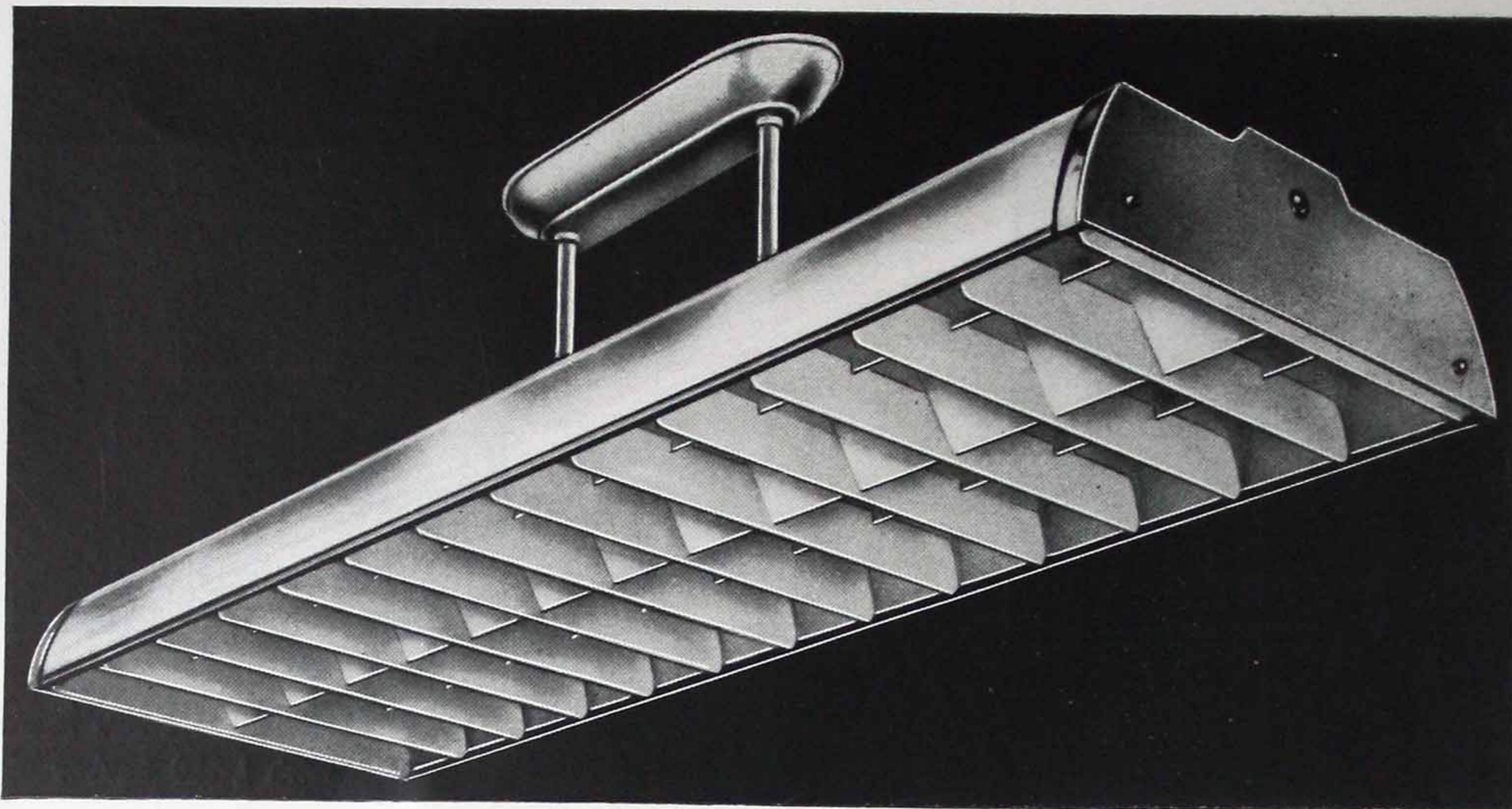
with L-150 Louver

An all metal "Down-Lighting" unit having universal gimbel ring adjustment, for use with two incandescent 150 watt PAR "side prong" base incandescent lamps.

For use in conjunction with the No. 344 and SL-348 fluorescent luminaires for attachment between units, at the ends of continuous rows, or separately.

- Width 16 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 9".
- Net weight 11 lbs.
- Complete with G. E. connector No. 95x931 AWG stranded nickel conductor insulated with silicon treated felted asbestos.
- Unit does not include lamps.





Catalog No. 344

(with Catalog No. 2 Twin-Stem Hanger)

A softly luminous, direct-indirect pendant luminaire with curved glass side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Equipped with FS-4 starters.
- Width 16½" — Depth 4¾" — Length 48⅝".
- Net weight 38 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

UTILIZATION FACTORS FOR CAT. NO. 344 FOUR 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	C	O	E F F I C I E N T	O	F	U	T I L I Z A T I O N	
J. 0.6	0.29	0.25	0.24	0.25	0.23	0.22	0.22	0.19
I. 0.8	0.35	0.32	0.30	0.31	0.28	0.27	0.26	0.24
H. 1.0	0.39	0.36	0.34	0.34	0.32	0.30	0.29	0.27
G. 1.25	0.42	0.40	0.37	0.37	0.34	0.33	0.31	0.29
F. 1.5	0.45	0.42	0.39	0.39	0.36	0.35	0.32	0.31
E. 2.0	0.49	0.46	0.43	0.42	0.40	0.38	0.35	0.34
D. 2.5	0.53	0.49	0.46	0.45	0.42	0.41	0.37	0.36
C. 3.0	0.55	0.51	0.48	0.46	0.44	0.42	0.38	0.37
B. 4.0	0.58	0.55	0.52	0.48	0.46	0.45	0.40	0.39
A. 5.0	0.59	0.57	0.55	0.50	0.48	0.46	0.41	0.40

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

GILL

planned lighting luminaires

REPORT Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 329593

Order No. 19249-L

Plate No. 55405

Date December 29, 1948

CANDLEPOWER DISTRIBUTION

CAT. NO. 344 PENDANT-MOUNTED FLUORESCENT LUMINAIRE*

TYPE - GD-35-20-1-P

Tested under Fleur-O-Lier Specifications

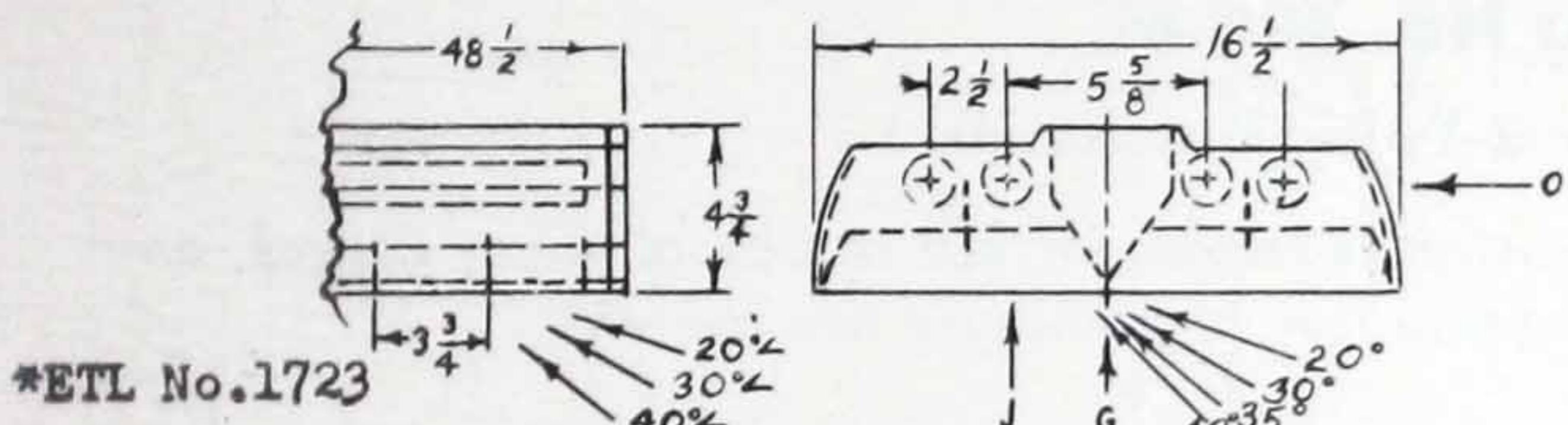
Rendered to Gill Glass and Fixture Company

Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12
White Fluorescent.

Unit - Synthetic enameled metal housing and cross
louver, reflectance 0.85; curved, ceramic coated
glass side panels.

Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit; A-A
normal, B-B parallel and C-C 45° to the tubes.

Maximum temperature rise - 57 C; specified max. 65 C



*ETL No. 1723

LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1290		90° HOR.	58.0	
175°	1300	124	85°	66	72
165°	1300	368	75°	132	140
155°	1250	579	65°	230	228
145°	1150	722	55°	447	401
135°	990	766	45°	765	592
125°	795	713	35°	1110	697
115°	545	540	25°	1340	621
105°	286	302	15°	1460	413
95°	116	127	5°	1480	141
			0° NADIR	1480	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	3305	36.0
0°-40°	1872	20.5	90°-180°	4241	46.0
0°-60°	2865	31.0	0°-180°	7546	82.0

LUMINAIRE BRIGHTNESS

Shielding Angles 37°C-25°L
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

ANGLES C/Sq. In. FOOT CANDLEPOWER	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	G	J
	0.38	0.77	1.1	1.4	2.0	2.7	0.68	1.4	3.1	0.34	4.4

TESTED BY W.L. PLOTTED BY J.F. COMPUTED BY See CHECKED BY See ISSUED December 29, 1948

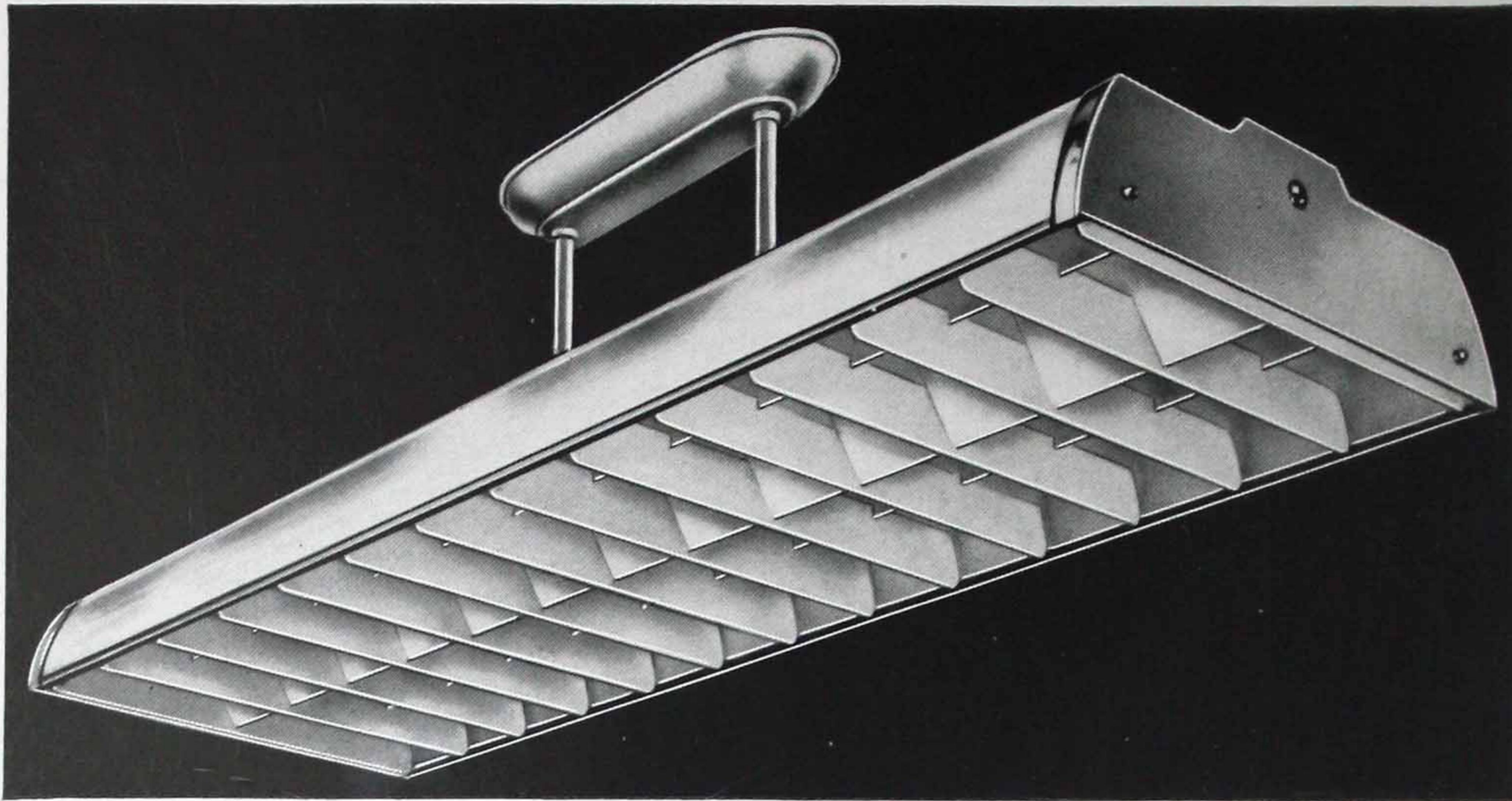
REPORT APPROVED BY

W. E. Gill
W. E. GILL
ENGINEER, PHOTOMETRIC DEPARTMENT

Carlene E. Horn
CARLENE E. HORN
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.

230-B



Catalog No. 344-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct, indirect pendant luminaire with metal side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 37° crosswise 25° lengthwise.
- Equipped with FS-4 starters.
- Width 16 $\frac{1}{2}$ "—Depth 4 $\frac{3}{4}$ "—Length 48 $\frac{5}{8}$ ".
- Net weight 38 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

UTILIZATION FACTORS FOR CAT. NO. 344M FOUR 40-WATT FLOURESCENT LUMINAIRE

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	C O E F F I C I E N T O F U T I L I Z A T I O N							
J. 0.6	0.29	0.25	0.23	0.25	0.23	0.21	0.21	0.19
I. 0.8	0.35	0.32	0.30	0.31	0.28	0.27	0.26	0.24
H. 1.0	0.39	0.36	0.34	0.34	0.32	0.30	0.29	0.27
G. 1.25	0.42	0.39	0.38	0.37	0.35	0.33	0.31	0.30
F. 1.5	0.45	0.42	0.40	0.39	0.37	0.35	0.33	0.32
E. 2.0	0.49	0.46	0.44	0.43	0.40	0.38	0.35	0.34
D. 2.5	0.53	0.49	0.47	0.45	0.43	0.41	0.38	0.37
C. 3.0	0.55	0.52	0.49	0.47	0.45	0.43	0.39	0.38
B. 4.0	0.58	0.55	0.53	0.49	0.47	0.45	0.40	0.39
A. 5.0	0.59	0.57	0.55	0.51	0.48	0.47	0.42	0.40

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330304

Order No. 19249-L

Plate No. 55600

Date February 23, 1949

CANDLEPOWER DISTRIBUTION

CAT. NO. 344M PENDANT-MOUNTED FLUORESCENT LUMINAIRE*

TYPE - G-35-20-2-P

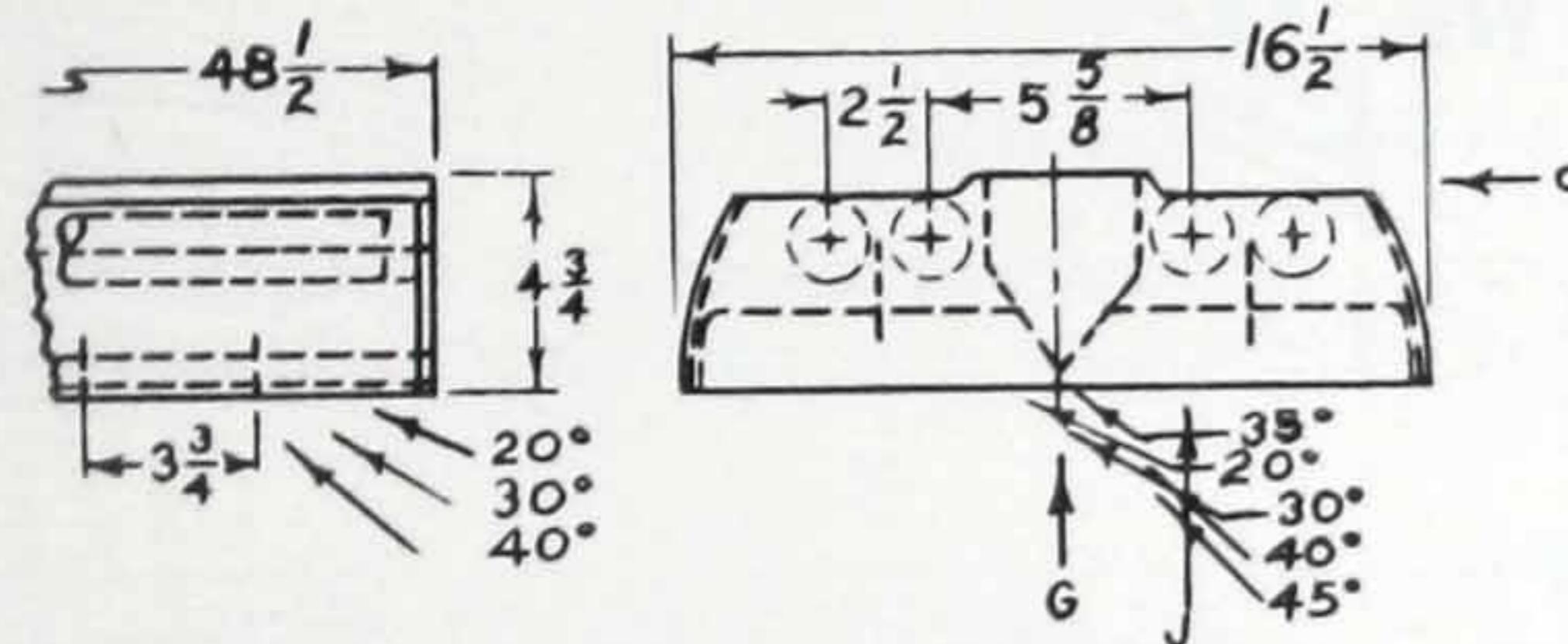
Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12
White Fluorescent.Unit - Synthetic enameled metal housing and louvers,
reflectance 0.85; curved metal sides.Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit.

Maximum temperature rise - 57 C; specified max. 65 C

*ETL No. 1723



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1290		90° HOR.	33.1	
175°	1290	123	85°	44.4	48
165°	1280	362	75°	123	130
155°	1230	570	65°	244	243
145°	1130	710	55°	468	420
135°	970	751	45°	815	631
125°	765	686	35°	1150	722
115°	530	526	25°	1370	634
105°	249	263	15°	1500	424
95°	83.5	91	5°	1530	145
			0° NADIR	1530	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0° - 30°			0° - 90°	3397	37.0
0° - 40°	1925	21.0	90° - 180°	4082	44.5
0° - 60°	2976	32.5	0° - 180°	7479	81.5

LUMINAIRE BRIGHTNESS

Shielding Angles 37°C-25°L
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

ANGLES C/Sq In. Foot CANDERTS	0°	20°	30°	35°	37°	40°	45°	20°L	25°L	30°L	40°L	G	J
	0.65	0.92	1.2	1.6	1.3	2.0	2.5	0.62	0.73	0.83	2.1	0.34	4.1

TESTED BY CJ PLOTTED BY sw COMPUTED BY JF CHECKED BY sw ISSUED February 23, 1949

REPORT APPROVED BY

ENGINEER, PHOTOMETRIC DEPARTMENT

IN CHARGE OF TEST

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A softly luminous, direct-indirect, pendant luminaire with curved glass side reflectors, for use in Schoolrooms, Offices and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with PS-4 starters.
- Width 16 1/2" — Depth 5 1/2" — Length 48 5/8".
- Net weight 42 lbs. (less hanger). Hanger shown on page 32.
- Top Reflector Plates are available—see page 34.

**UTILIZATION FACTORS FOR
 CAT. NO. 344 1/2 FOUR 40-WATT FLUORESCENT LUMINAIRE**

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	COEFFICIENT OF UTILIZATION							
J. 0.6	0.26	0.22	0.21	0.22	0.20	0.19	0.18	0.17
I. 0.8	0.31	0.28	0.26	0.27	0.25	0.23	0.22	0.21
H. 1.0	0.35	0.32	0.30	0.30	0.28	0.26	0.25	0.23
G. 1.25	0.38	0.35	0.33	0.33	0.30	0.29	0.26	0.25
F. 1.5	0.41	0.38	0.35	0.35	0.32	0.31	0.28	0.27
E. 2.0	0.44	0.41	0.39	0.38	0.35	0.33	0.30	0.29
D. 2.5	0.48	0.44	0.42	0.40	0.38	0.36	0.32	0.31
C. 3.0	0.50	0.47	0.44	0.41	0.39	0.37	0.33	0.32
B. 4.0	0.53	0.50	0.47	0.43	0.41	0.40	0.35	0.34
A. 5.0	0.56	0.52	0.50	0.45	0.43	0.41	0.36	0.35

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

REPORT
Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330305

Order No. 19249-L

Plate No. 55601

Date February 23, 1949

CANDLEPOWER DISTRIBUTION
CAT. NO. 344-1/2 PENDANT-MOUNTED FLUORESCENT LUMINAIRE*
TYPE - SI-40-40-2-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

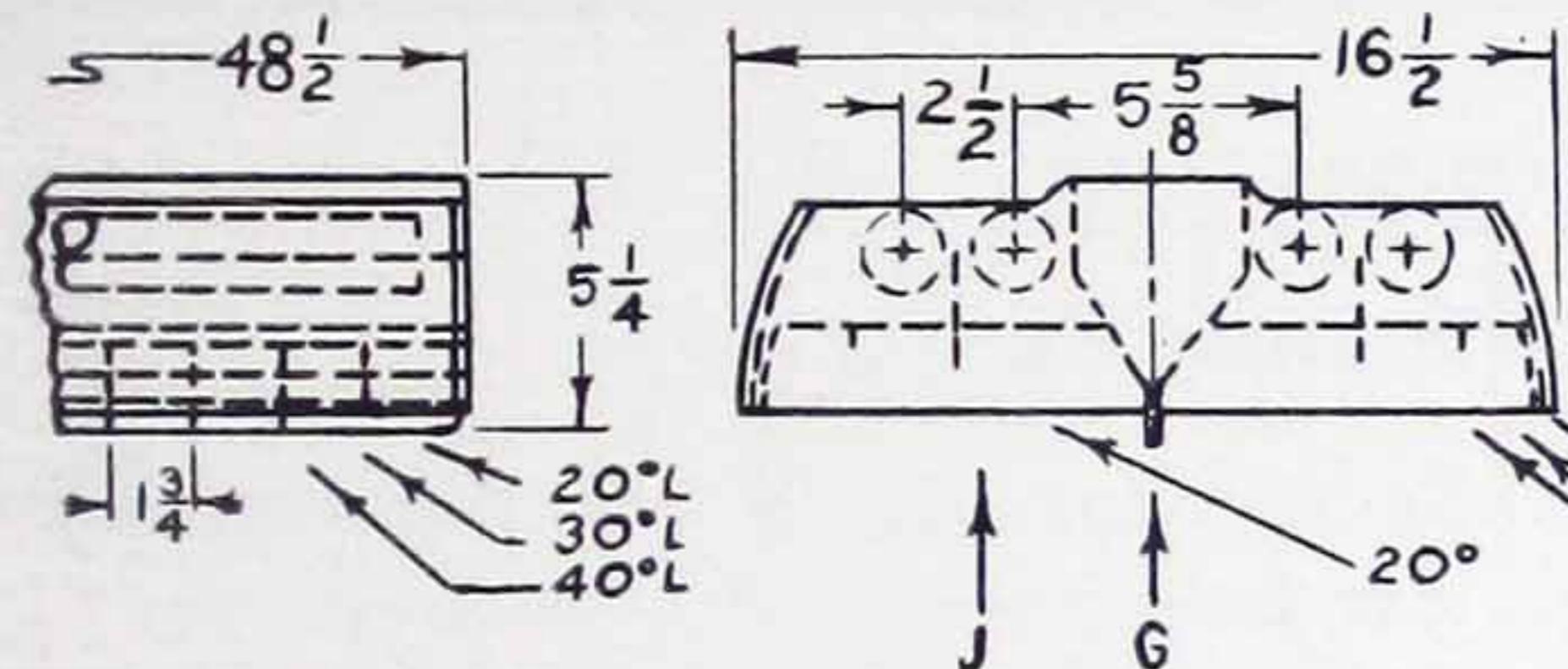
Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and louvers, reflectance 0.85; ceramic coated glass sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 57 C; specified max. 65 C

*ETL No. 1723



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1340		90° HOR.	67	
175°	1350	128	85°	68.5	75
165°	1330	377	75°	130	138
155°	1270	588	65°	213	211
145°	1160	728	55°	329	295
135°	1000	774	45°	525	406
125°	790	709	35°	865	544
115°	540	535	25°	1170	542
105°	284	301	15°	1400	396
95°	119	130	5°	1520	144
			0° NADIR	1550	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0° - 30°			0° - 90°	2751	30.0
0° - 40°	1626	17.5	90° - 180°	4270	46.5
0° - 60°	2327	25.0	0° - 180°	7021	76.5

LUMINAIRE BRIGHTNESS

Shielding Angles 43-1/2°C-40-1/2°L
 THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW

ANGLES	0°	20°	30°	35°	40°	43-1/2°	45°	20°L	30°L	40°L	40-1/2°L	G	J
C/Sq In.	0.37	0.83	1.1	1.4	1.7	1.9	1.9	0.59	0.70	0.83	0.83	0.37	4.4
FOOT CANDERTS	0.37	0.83	1.1	1.4	1.7	1.9	1.9	0.59	0.70	0.83	0.83	0.37	4.4

TESTED BY EJ PLOTTED BY CW COMPUTED BY JF CHECKED BY SW ISSUED February 23, 1949

REPORT APPROVED BY William Heath
 ENGINEER, PHOTOMETRIC DEPARTMENT

Corolini E. Horn
 IN CHARGE OF TEST

GILL

planned lighting luminaires



Catalog No. 344^{1/2}-M

(with Catalog No. 2 Twin-Stem Hanger)

A direct-indirect pendant luminaire with metal side reflectors for use in Schoolrooms, Offices, and other areas where high efficiencies and comfortable low brightnesses are desired.

- For use with 4-40 watt fluorescent lamps.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Equipped with FS-4 starters.
- Width 16^{1/2}"—Depth 5^{1/2}"—Length 48^{5/8}".
- Net weight 42 lbs. (less hanger). Hangers shown on page 32.
- Top reflector plates are available—see page 34.

UTILIZATION FACTORS FOR CAT. NO. 344^{1/2}M FOUR 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	COEFFICIENT OF UTILIZATION							
J. 0.6	0.26	0.23	0.21	0.23	0.21	0.19	0.20	0.17
I. 0.8	0.31	0.29	0.27	0.28	0.26	0.24	0.23	0.22
H. 1.0	0.35	0.32	0.318	0.30	0.28	0.27	0.26	0.24
G. 1.25	0.38	0.36	0.33	0.33	0.31	0.30	0.28	0.26
F. 1.5	0.41	0.38	0.35	0.35	0.33	0.31	0.29	0.28
E. 2.0	0.44	0.41	0.39	0.38	0.36	0.34	0.31	0.30
D. 2.5	0.48	0.44	0.42	0.40	0.38	0.37	0.33	0.32
C. 3.0	0.49	0.47	0.44	0.42	0.40	0.38	0.34	0.33
B. 4.0	0.52	0.49	0.47	0.43	0.42	0.40	0.35	0.35
A. 5.0	0.53	0.51	0.49	0.45	0.43	0.42	0.37	0.35

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330306

Order No. 19249-L

Plate No. 55602

Date February 23, 1949

CANDLEPOWER DISTRIBUTION

CAT. NO. 344-1/2M PENDANT-MOUNTED FLUORESCENT LUMINAIRE*

TYPE - G-40-40-2-P

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

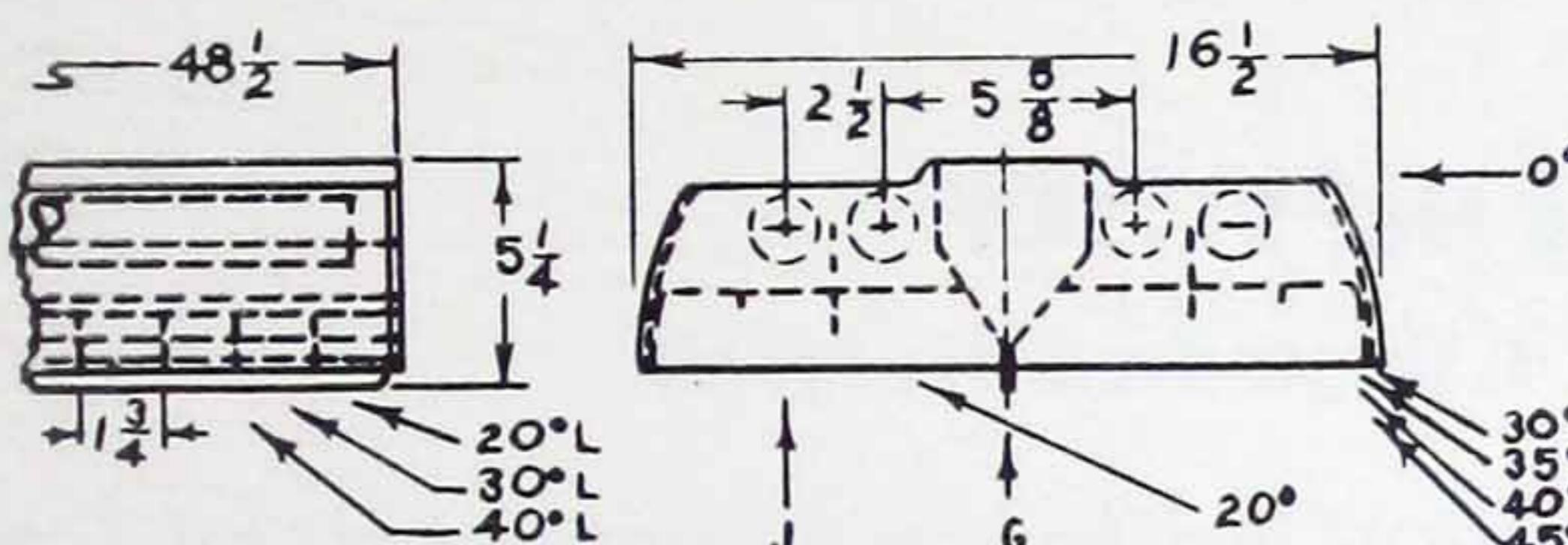
Lamps - Four - 40 Watts; 118 Volts; 2300 Lumens; T-12 White Fluorescent.

Unit - Synthetic enameled metal housing and louvers, reflectance 0.85; curved metal sides.

Test - Candlepower distribution in three vertical planes intersecting in the center of the unit.

Maximum temperature rise - 57 C; specified max. 65 C

*ETL No. 1723



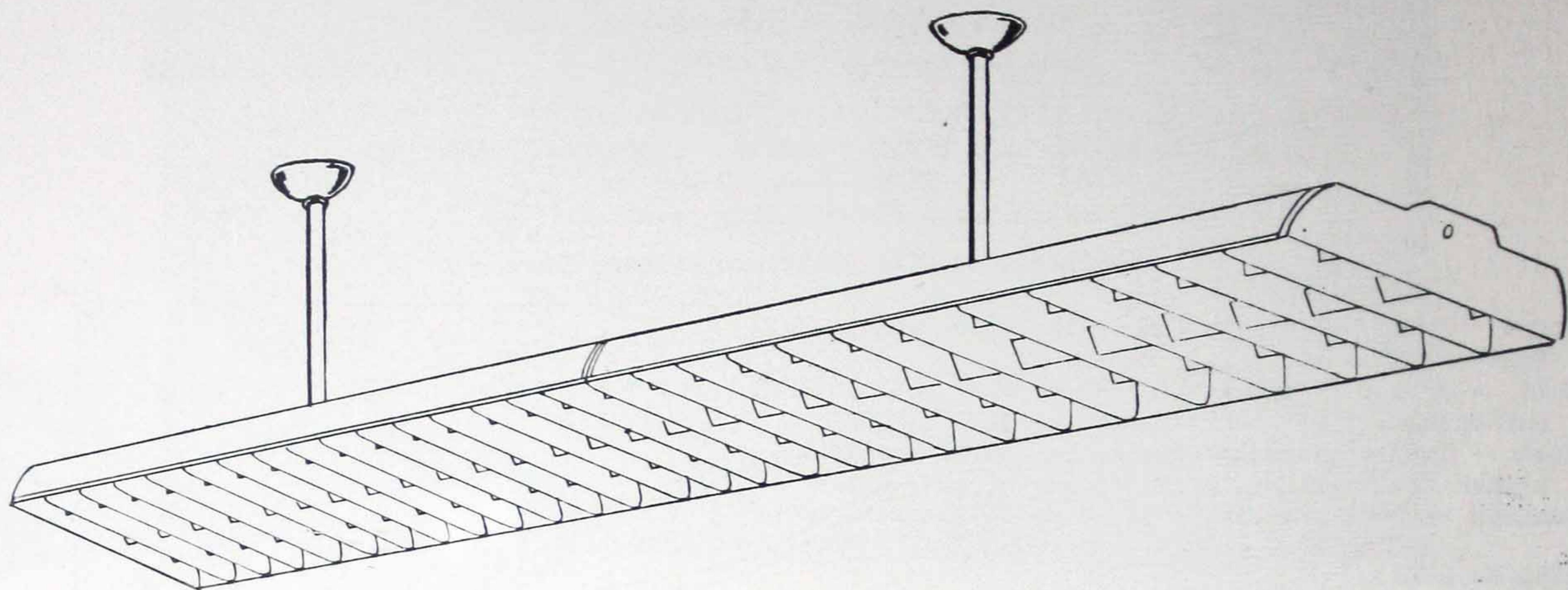
LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° ZEN.	1340		90° HOR.	38.6	
175°	1340	127	85°	43.3	47
165°	1330	376	75°	119	126
155°	1280	592	65°	222	220
145°	1140	716	55°	357	320
135°	935	723	45°	580	449
125°	685	615	35°	940	590
115°	432	429	25°	1260	583
105°	239	253	15°	1500	425
95°	82.5	90	5°	1610	153
			0° NADIR	1630	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	2913	31.5
0°-40°	1751	19.0	90°-180°	3921	43.0
0°-60°	2520	27.5	0°-180°	6834	74.5

ANGLES IN. FOOT LAMBERTS	Shielding Angles 43-1/2°-40-1/2°L THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW												
	0°	20°	30°	35°	40°	43-1/2°	45°	20°L	30°L	40°L	40-1/2°L	G	J
43-1/2°	0.92	1.0	1.3	1.6	1.8	1.8	2.0	0.63	0.74	0.90	0.90	0.42	4.3

TESTED BY EJ PLOTTED BY ew COMPUTED BY JF CHECKED BY ew ISSUED February 23, 1949REPORT APPROVED BY William J. Hiltz
ENGINEER, PHOTOMETRIC DEPARTMENTCaroline S. Horn
IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO ETL REVIEW AND APPROVAL.

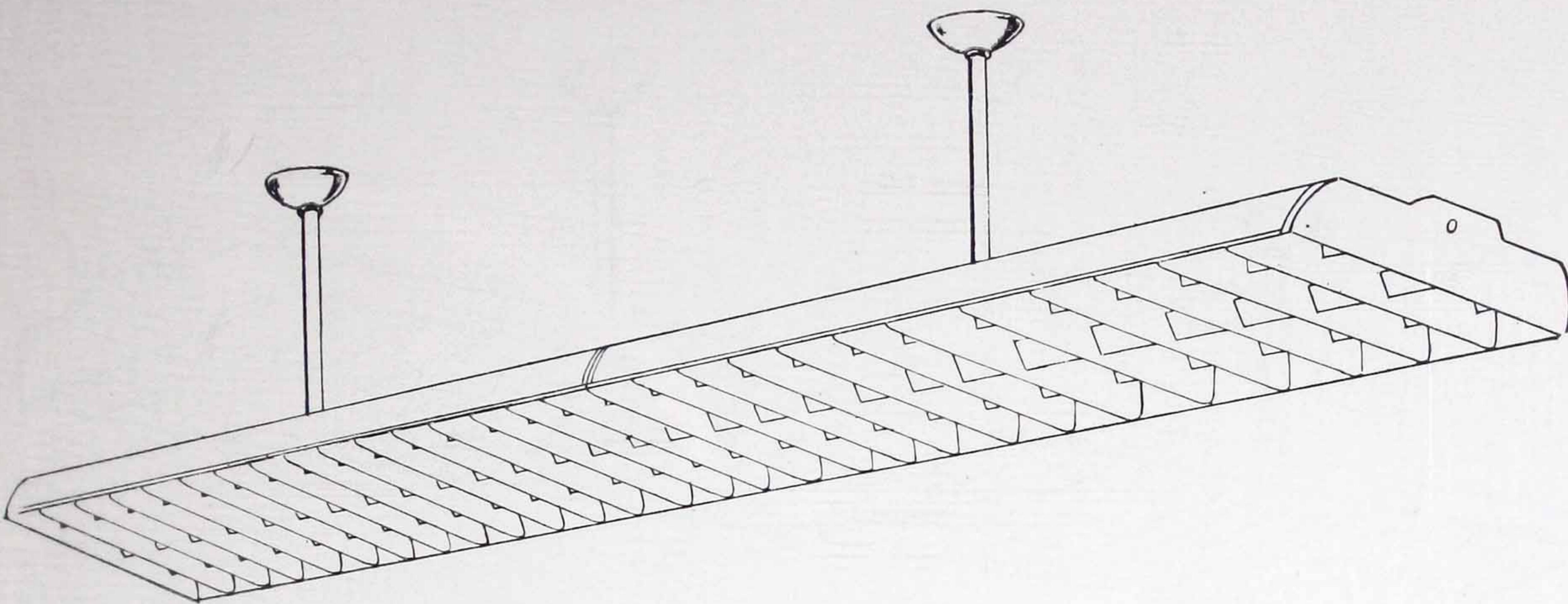
**Catalog No. SL-348****(with Catalog No. 3 Single-Stem Hangers)**

An eight foot long, luminous, direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 16½"—Depth 4¾"—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} — 60 \text{ lbs} \\ 300 \text{ ma} — 66 \text{ lbs.} \\ 425 \text{ ma} — 78 \text{ lbs.} \end{cases}$ less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344 luminaire shown on page 18. The bottom louvers and side glass reflectors, are four feet long and are removable exactly the same as on the Catalog No. 344.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344 series, the intensities and brightnesses varying directly with the amperage selected.



Catalog No. SL-348-M

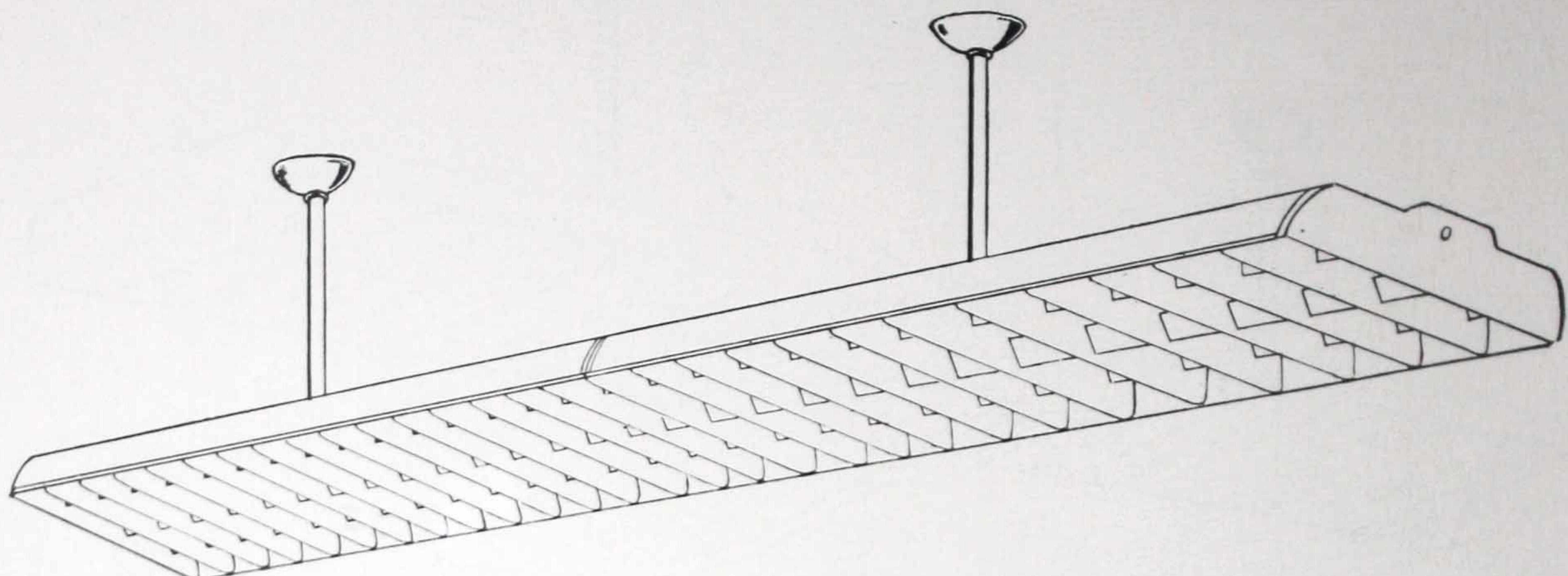
(with Catalog No. 3 Single-Stem Hangers)

An eight foot long, direct-indirect, pendant luminaire with curved metal side reflectors—for use in Schoolrooms, Offices and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 37° crosswise and 25° lengthwise.
- Width 16½"—Depth 4¾"—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} — 60 \text{ lbs} \\ 300 \text{ ma} — 66 \text{ lbs.} \\ 425 \text{ ma} — 78 \text{ lbs.} \end{cases}$ less hangers. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344-M luminaire shown on page 20. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 344-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344-M series, the intensities and brightnesses varying directly with the amperage selected.

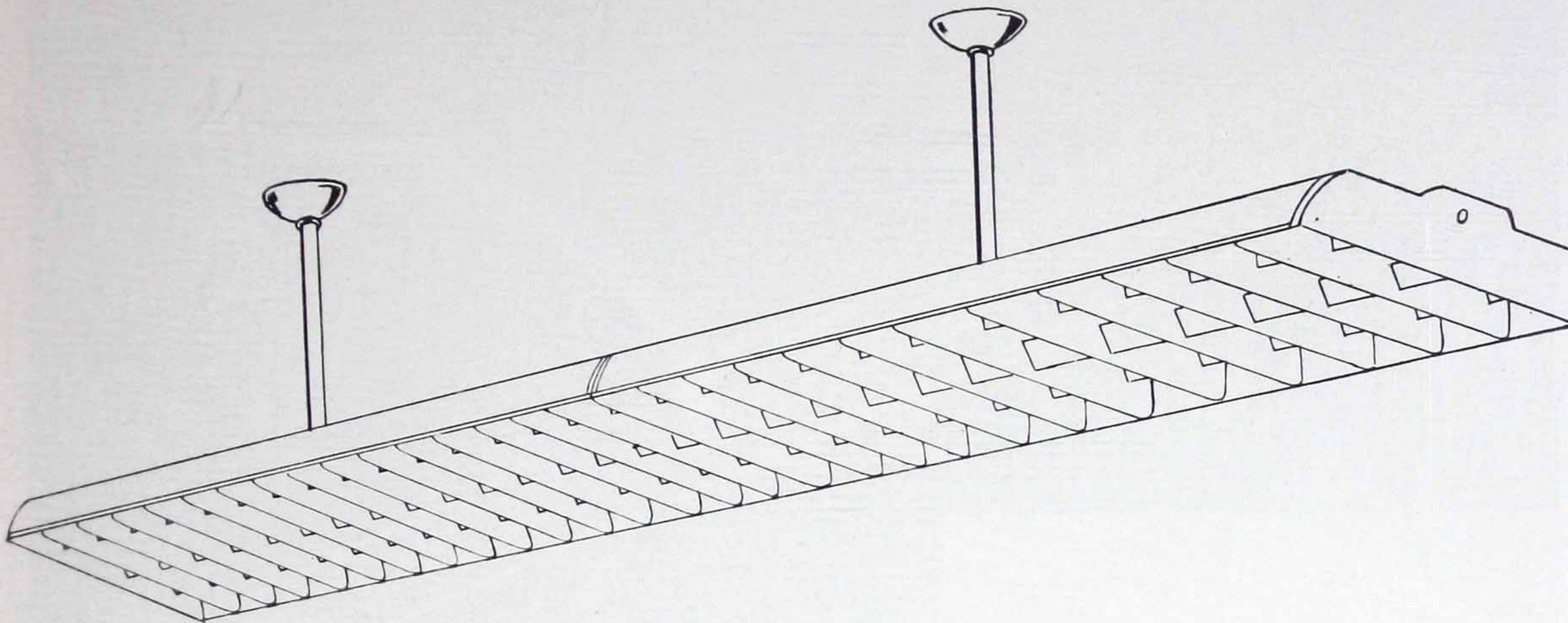
**Catalog No. SL-348 $\frac{1}{2}$** **(with Catalog No. 3 Single-Stem Hangers)**

An eight foot long, luminous, direct-indirect pendant luminaire with curved glass side reflectors—for use in Schoolrooms, Offices and other areas, where high efficiency and comfortable low brightnesses are desired.

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded to 45° crosswise and 45° lengthwise.
- Width 16 $\frac{1}{2}$ "—Depth 5 $\frac{1}{2}$ "—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} — 68 \text{ lbs.} \\ 300 \text{ ma} — 74 \text{ lbs.} \\ 425 \text{ ma} — 86 \text{ lbs.} \end{cases}$ less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344 $\frac{1}{2}$ luminaire shown on page 22. The bottom louvers and side glass reflectors are four feet long and are removable exactly the same as on the Catalog No. 344 $\frac{1}{2}$.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344 $\frac{1}{2}$ series, the intensities and brightnesses varying directly with the amperage selected.

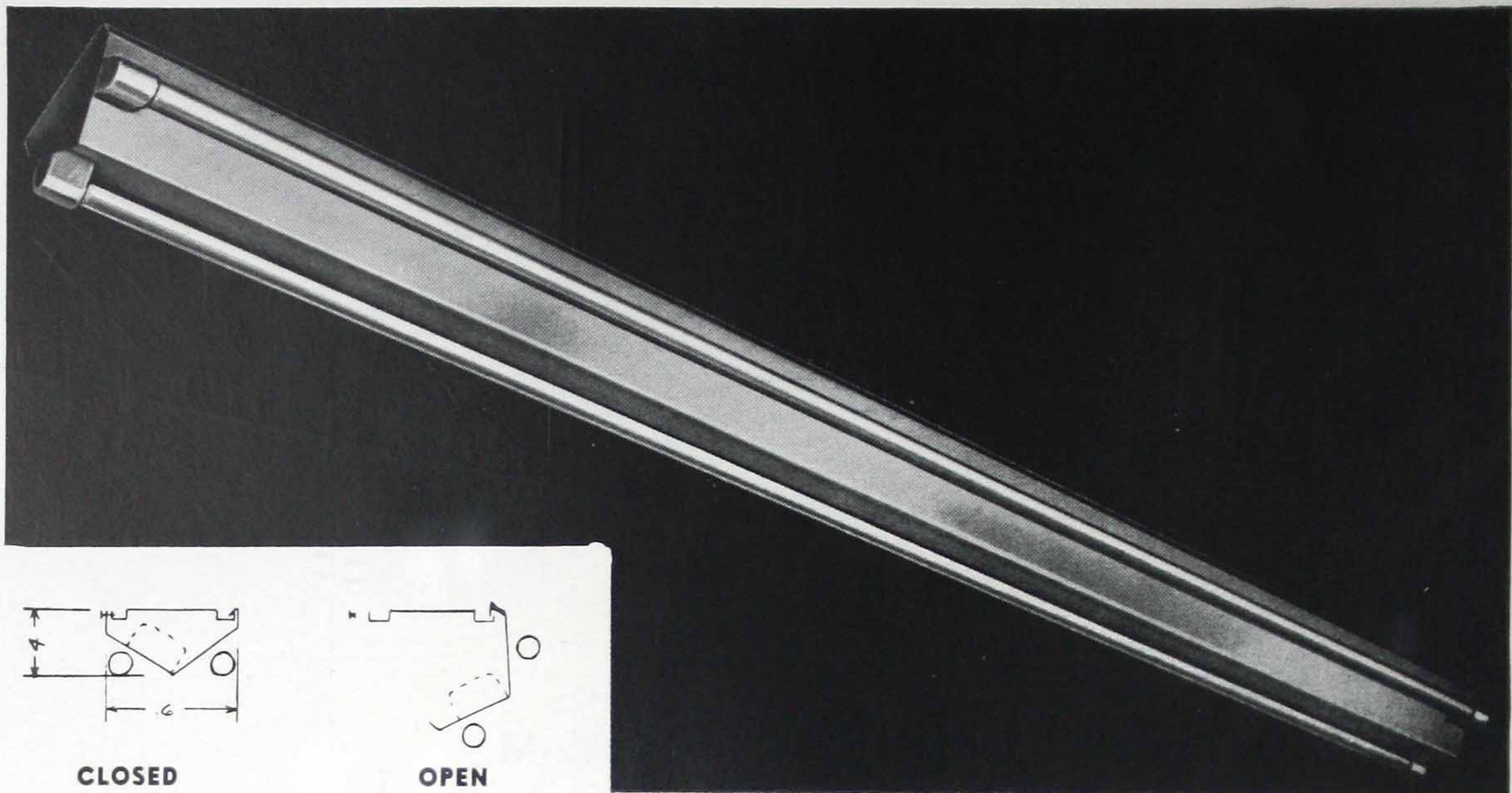
**Catalog No. SL-348^{1/2}-M****(with Catalog No. 3 Single-Stem Hangers)**

An eight foot long, direct-indirect, pendant luminaire with curved metal side reflectors—for use in Schoolrooms, Offices, and other areas where high efficiency and comfortable low brightnesses are desired.

- For use with 4-96" T8 or T-12 slimline fluorescent lamps.
- Available with 200 ma, 300 ma, or 425 ma ballasts.
- Lamps shielded 45° crosswise and 45° lengthwise.
- Width 16^{1/2}"—Depth 5^{1/2}"—Length 96".
- Net weight $\begin{cases} 200 \text{ ma} & 68 \text{ lbs.} \\ 300 \text{ ma} & 74 \text{ lbs.} \\ 425 \text{ ma} & 86 \text{ lbs.} \end{cases}$ less hanger. Hangers shown on page 32.

With the exception that the ballast housing consists of one eight foot long channel this slimline luminaire is identical to the Catalog No. 344^{1/2}-M luminaire shown on page 24. The bottom louvers and side metal reflectors are four feet long and are removable exactly the same as on the Catalog No. 344^{1/2}-M.

The lighting characteristics of this slimline luminaire are also similar to those of the No. 344^{1/2}-M series, the intensities and brightnesses varying directly with the amperage selected.

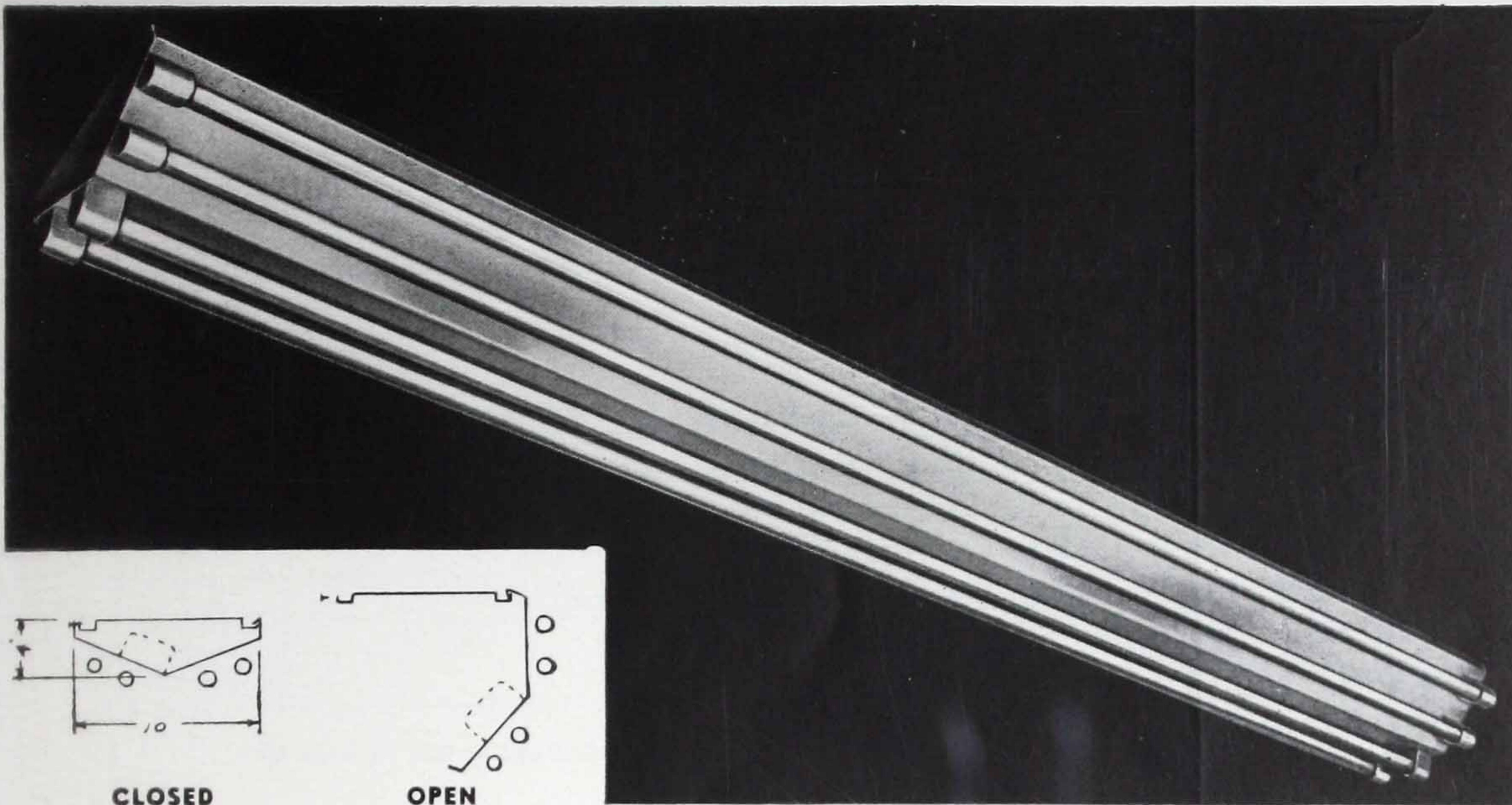


Catalog No. 726—6 Ft. Long Slimline
Catalog No. 728—8 Ft. Long Slimline

An open unshielded slimline luminaire designed for ease of installation—for those high ceiling market areas where lamp shielding is not essential.

- For use with 2-72" or 96" T-8 slimline fluorescent lamps.
- Width 6"—Depth 4"—Length 72" or 96".
- Furnished with either 200 ma or 300 ma ballasts.
- Net weight No. 726 {200 ma — 39 lbs.
300 ma — 42 lbs.} No. 728 {200 ma — 44 lbs.
300 ma — 47 lbs.}
- Construction data shown on pages 33 and 34.

This unit consists of two basic parts—a ceiling plate and a hinged, removable reflector. The ballast and sockets are attached to the reflector. On installation the ceiling plates are first secured to the ceiling or attached to the stem hangers. The reflector is then attached, the wiring connections made, and the reflector closed and secured by means of three knurled headed bolts.



Catalog No. 746—6 Foot Slimline
Catalog No. 748—8 Foot Slimline

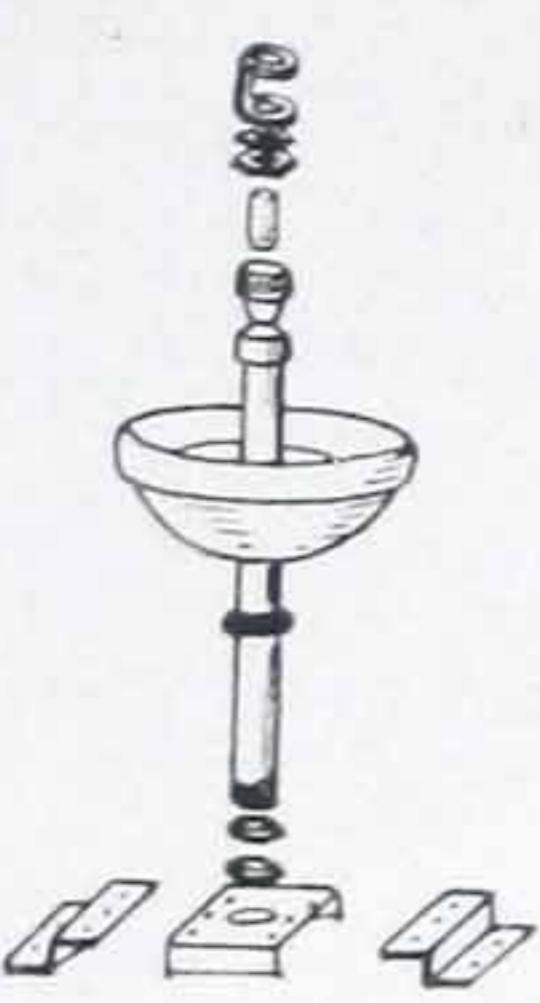
An open, unshielded slimline luminaire designed for ease of installation—for those high ceiling market areas where lamp shielding is not essential.

- For use with 4-72" or 96" T-8 slimline fluorescent lamps.
- Width 10"—Depth 4"—Length 72" or 96".
- Furnished with either 200 ma or 300 ma ballasts.
- Net weight No. 746 {200 ma — 57 lbs.
300 ma — 60 lbs.} No. 748 {200 ma — 67 lbs.
300 ma — 73 lbs.}
- Construction data shown on pages 33 and 34.

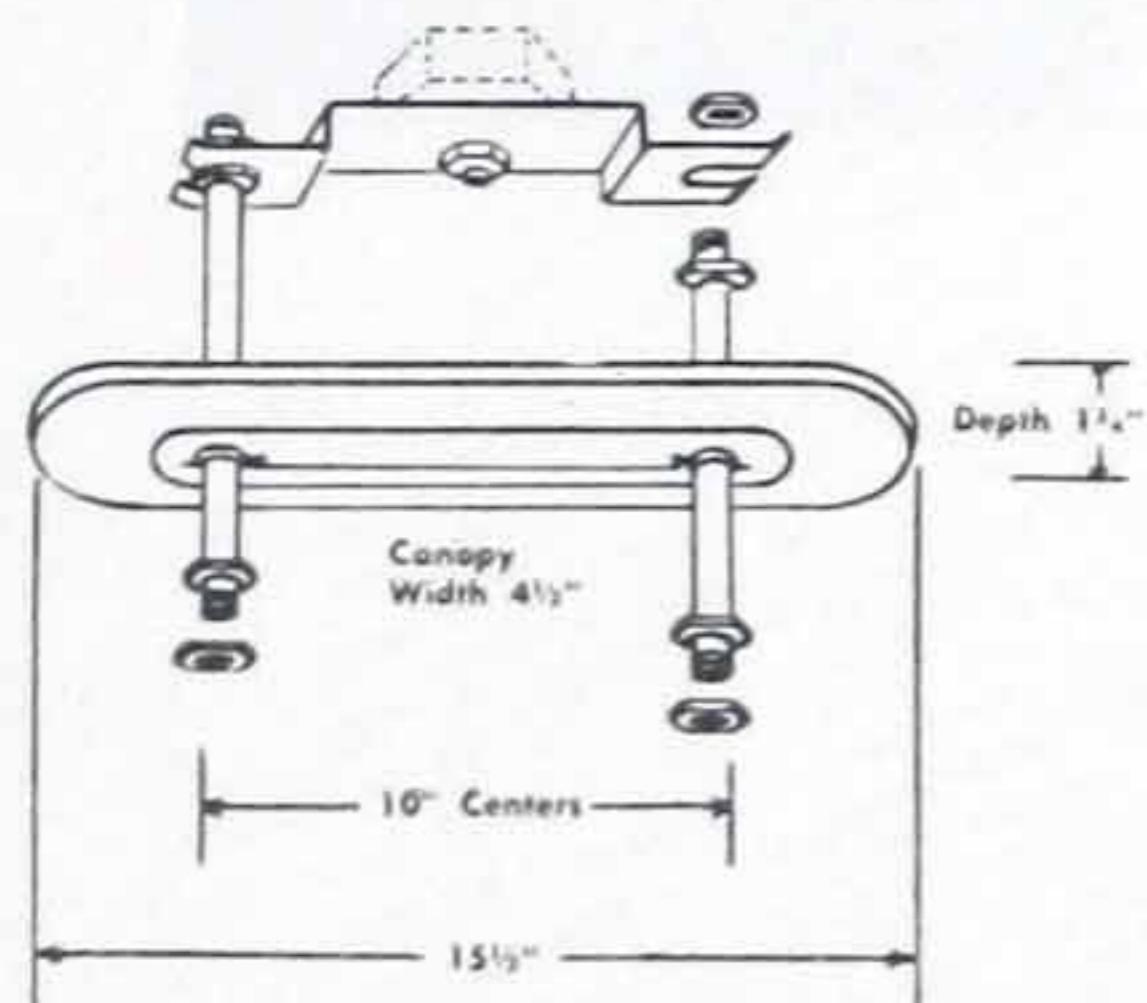
This unit consists of two basic parts—a ceiling plate and a hinged, removable reflector. The ballast and sockets are attached to the reflector. On installation the ceiling plates are first secured to the ceiling or attached to the stem hangers. The reflector is then attached, the wiring connections made, and the reflector closed and secured by means of three knurled headed bolts.



Catalog No. 1



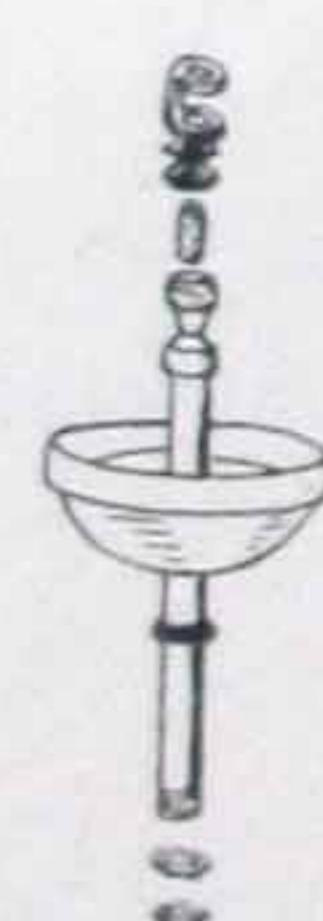
Catalog No. 1-S



Catalog No. 2



Catalog No. 3



Catalog No. 4

Single Stem Hanger No. 1

- 1— $\frac{3}{8}$ " Steel tubing $13\frac{1}{4}$ " long.
- 1—5" dia. slip canopy $1\frac{5}{8}$ " deep.
- 1— $\frac{3}{8} \times \frac{3}{8}$ steel hickey.
- 4— $\frac{3}{8}$ locknuts.
- 1—fixture joiner set which permits hanging of two adjoining fixtures at their intersection.

Finished in Silvertone high temperature baked enamel. NET WEIGHT $1\frac{1}{2}$ pounds.

Single Stem Swivel Hanger No. 1-S

- 1— $\frac{3}{8}$ " steel tubing $11\frac{1}{2}$ " long.
- 2— $\frac{1}{4}$ " locknuts.
- 1—5" dia. canopy $1\frac{5}{8}$ " deep.
- 1—Canopy retaining ring.
- 1— $\frac{1}{4} \times 1$ " iron nipple R. T.
- 1— $\frac{3}{8} \times \frac{1}{4}$ hickey.
- 2— $\frac{3}{8}$ locknuts.
- 1— $\frac{1}{4} \times \frac{3}{8}$ brass swivel.
- 1—fixture joiner set which permits hanging of two adjoining fixtures at their intersection.

Finished in Silvertone high temperature baked enamel. NET WEIGHT $1\frac{1}{2}$ pounds.

Twin Stem Hanger No. 2

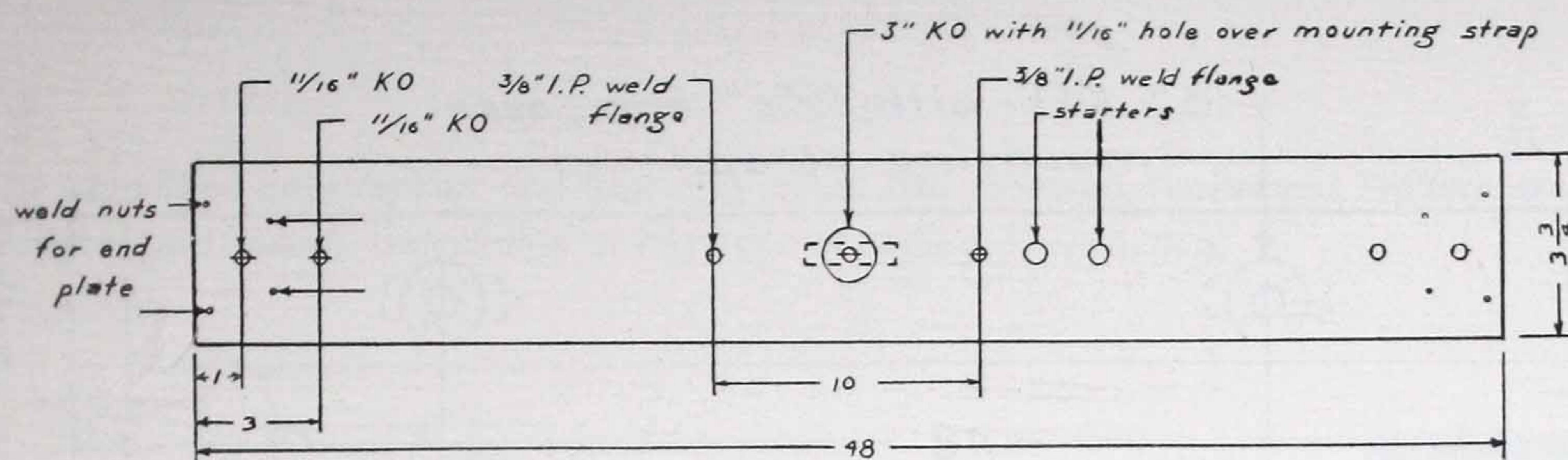
- 2— $\frac{3}{8}$ " dia. steel tubes $13\frac{1}{4}$ " long.
- 1— $15\frac{3}{8} \times 4\frac{3}{8}$ " slip canopy $1\frac{3}{4}$ " deep.
- 1—steel cross bar having a 1" deep offset and a $\frac{3}{4}$ " dia. center hole for stud mounting. This cross-bar has open, flared ends.

Finished in Silvertone high temperature baked enamel. NET WEIGHT $3\frac{1}{4}$ pounds.

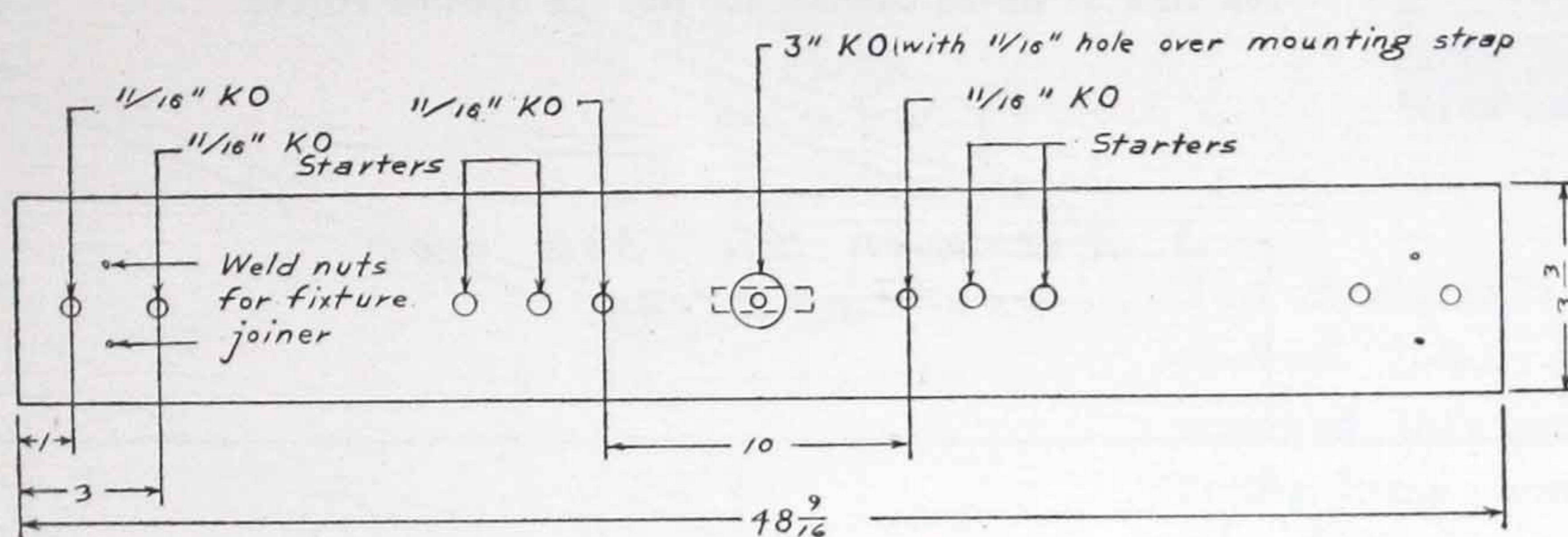
Single Stem Hanger No. 3 is similar to hanger No. 1 above described except less fixture joiner. For use on those installations where adjoining fixtures are not to be supported at their intersection—particularly for use with slimline fluorescent luminaires. NET WEIGHT $1\frac{1}{4}$ pounds.

Single Stem Hanger No. 4 is similar to hanger No. 1-S above described except less fixture joiner. For use on those installations where adjoining fixtures are not to be supported at their intersection—particularly for use with slimline fluorescent luminaires. NET WEIGHT $1\frac{1}{4}$ pounds.

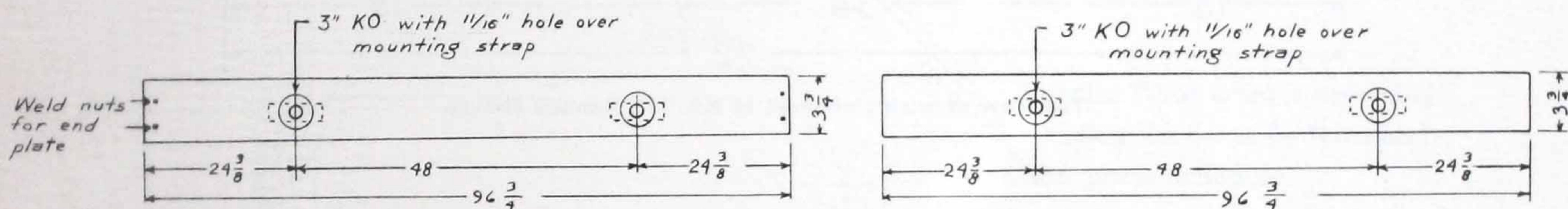
GILL planned lighting construction data



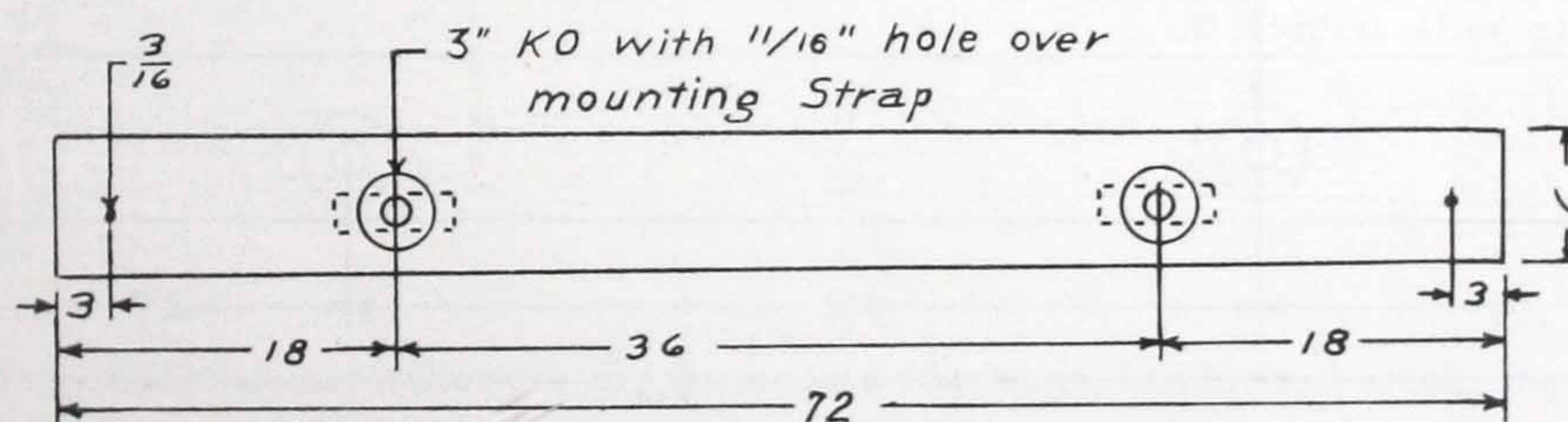
Top view of wiring channel for No. 324, No. 324 1/2, No. 324-M, No. 324 1/2-M, No. 324-S



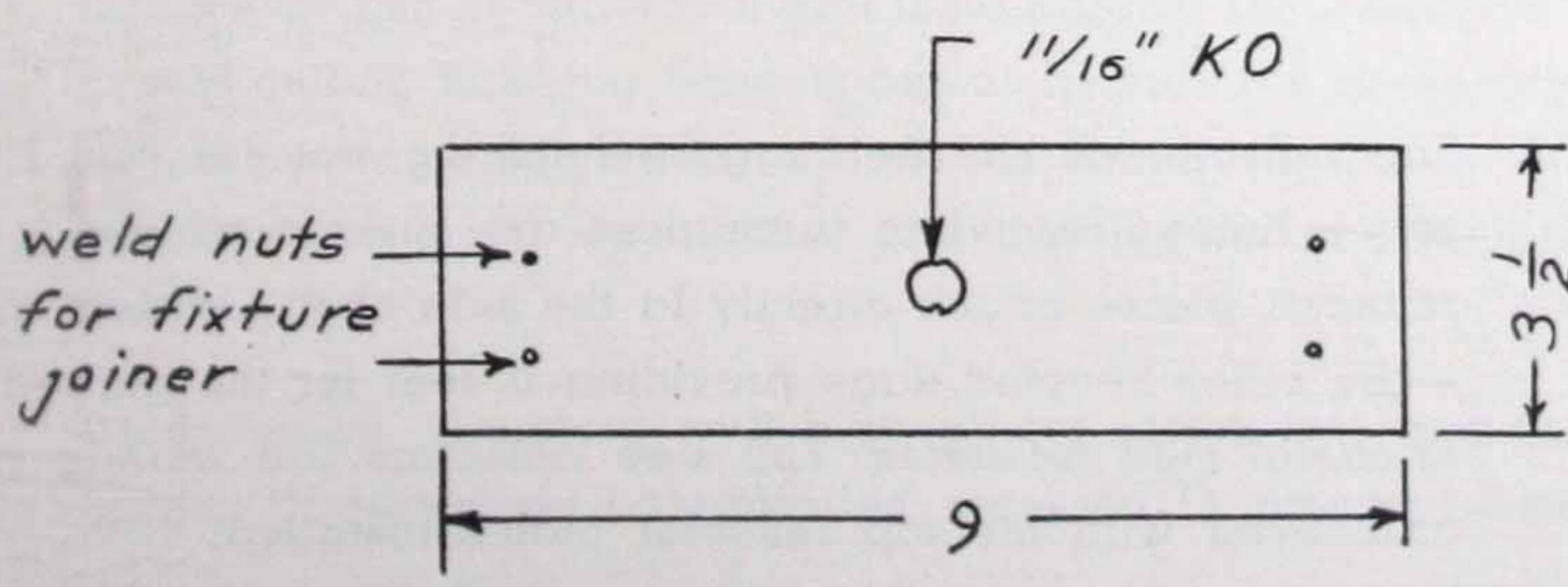
Top view of wiring channel for No. 344, No. 344-M, No. 344 1/2, No. 344 1/2-M



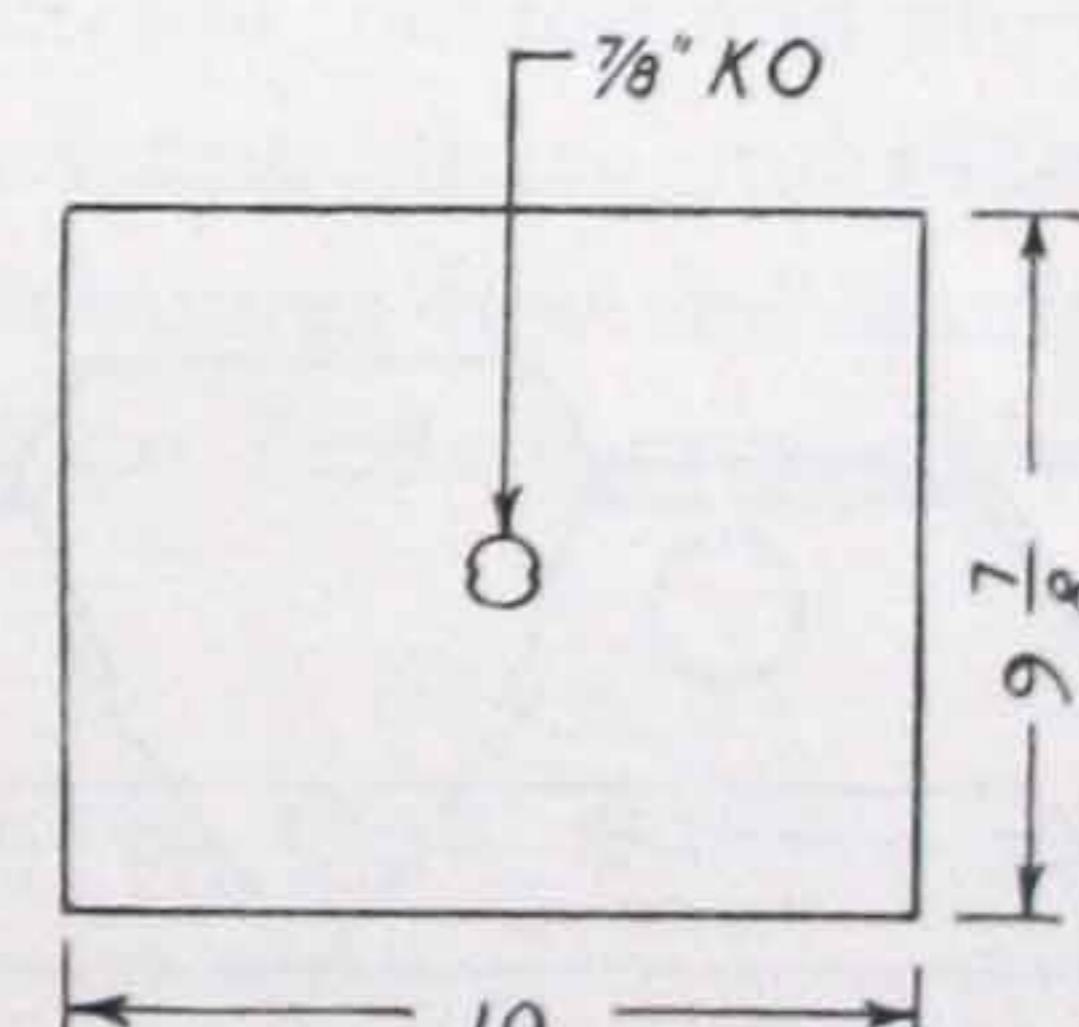
Top view of wiring channel for SL-328, SL-328 1/2, SL-328-M, SL-328 1/2-M, SL-348, SL-348 1/2, SL-348-M, SL-348 1/2-M



Top view of wiring channel for 726 Slimline fixture.

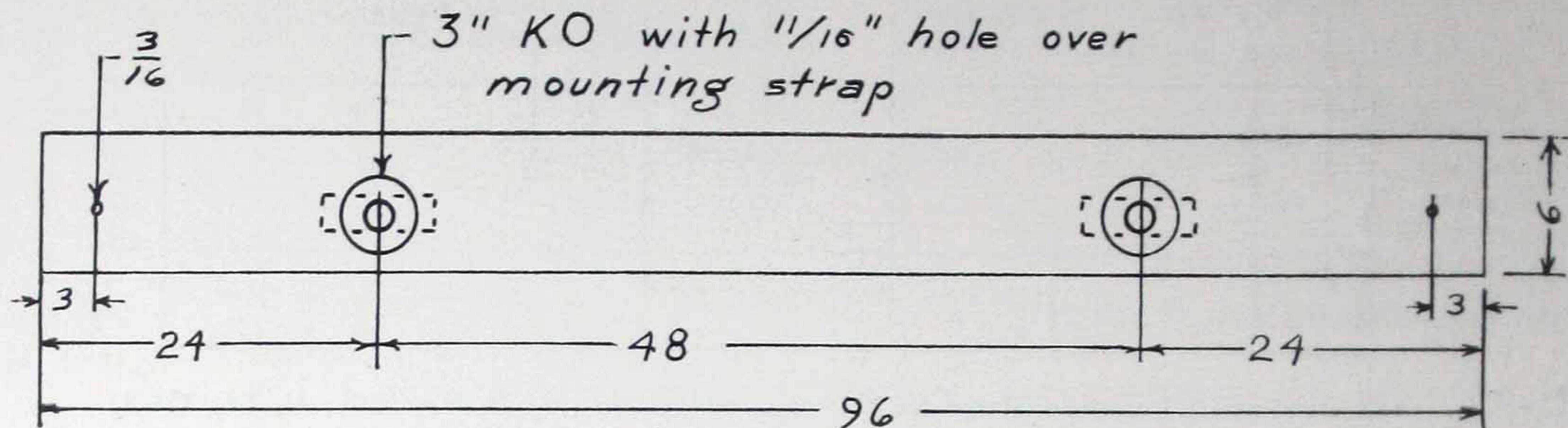


Top view of No. 150, No. 250 Downlite

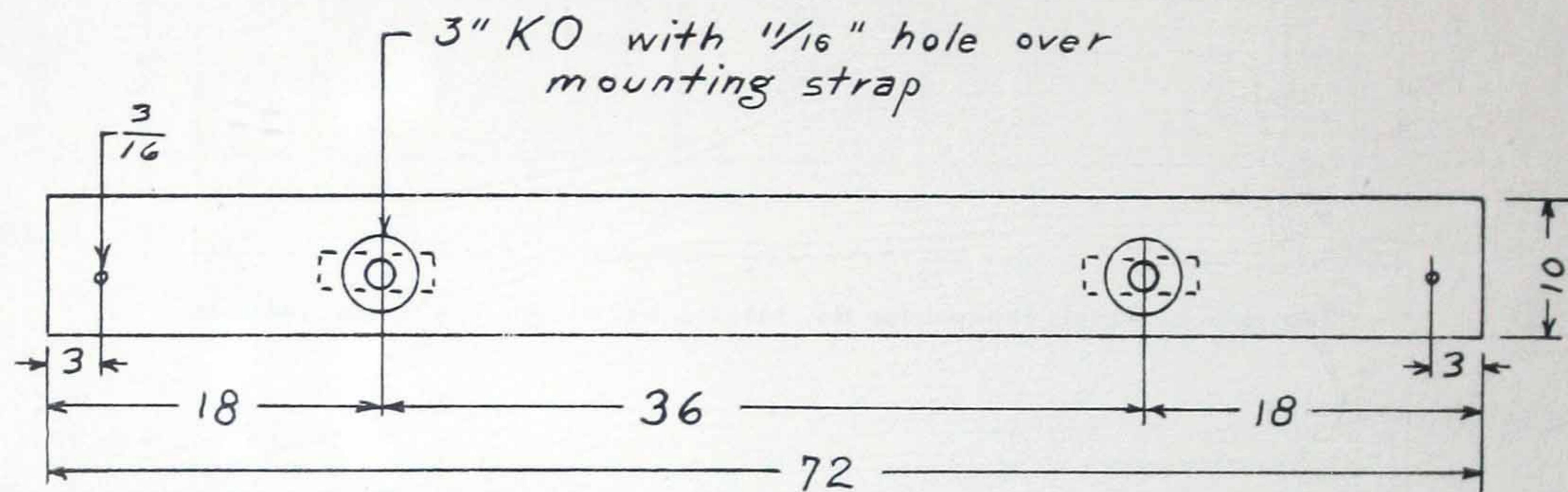


Top view of No. 950 Troffer Downlite

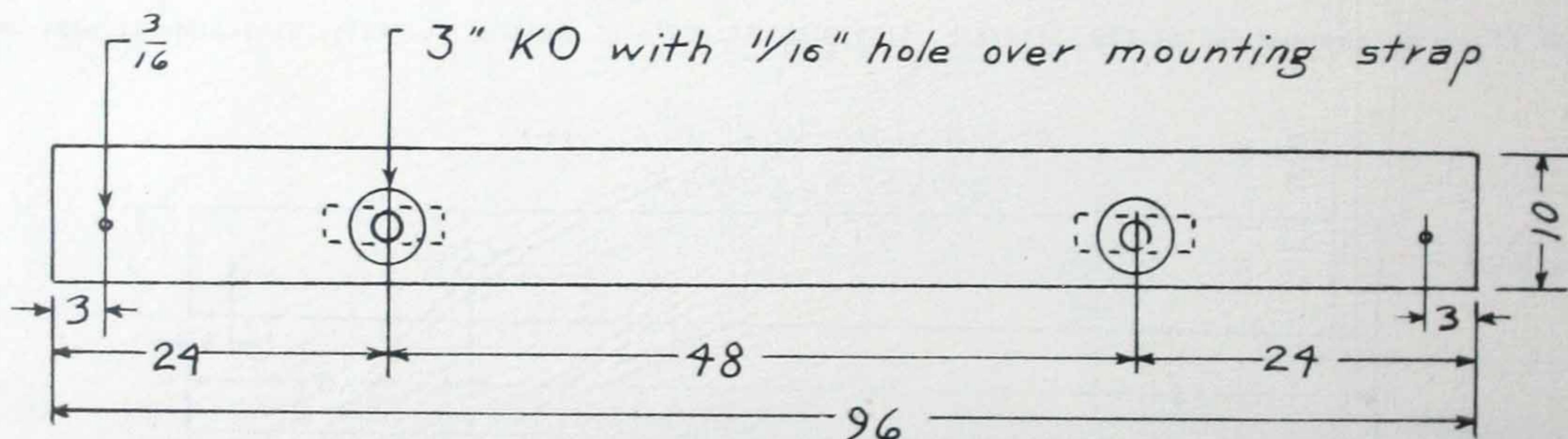
GILL planned lighting construction data



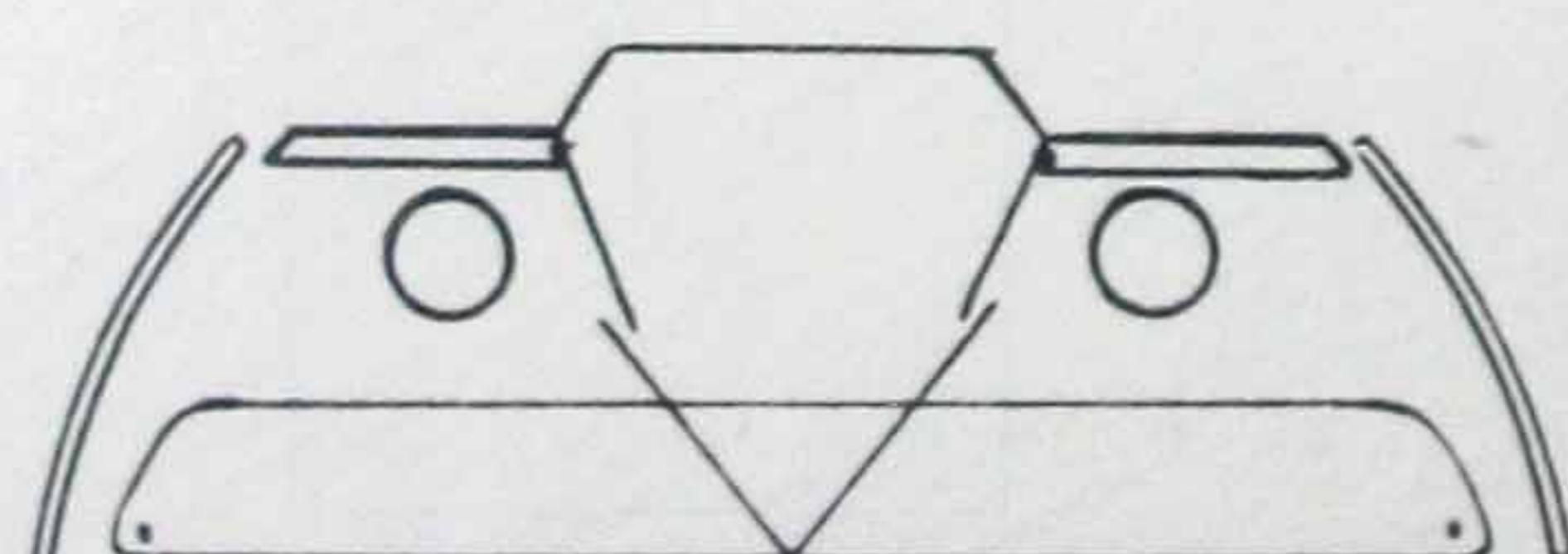
Top view of wiring channel for No. 728 Slimline Fixture



Top view of wiring channel of No. 746 Slimline Fixture



Top view of wiring channel of No. 748 Slimline Fixture

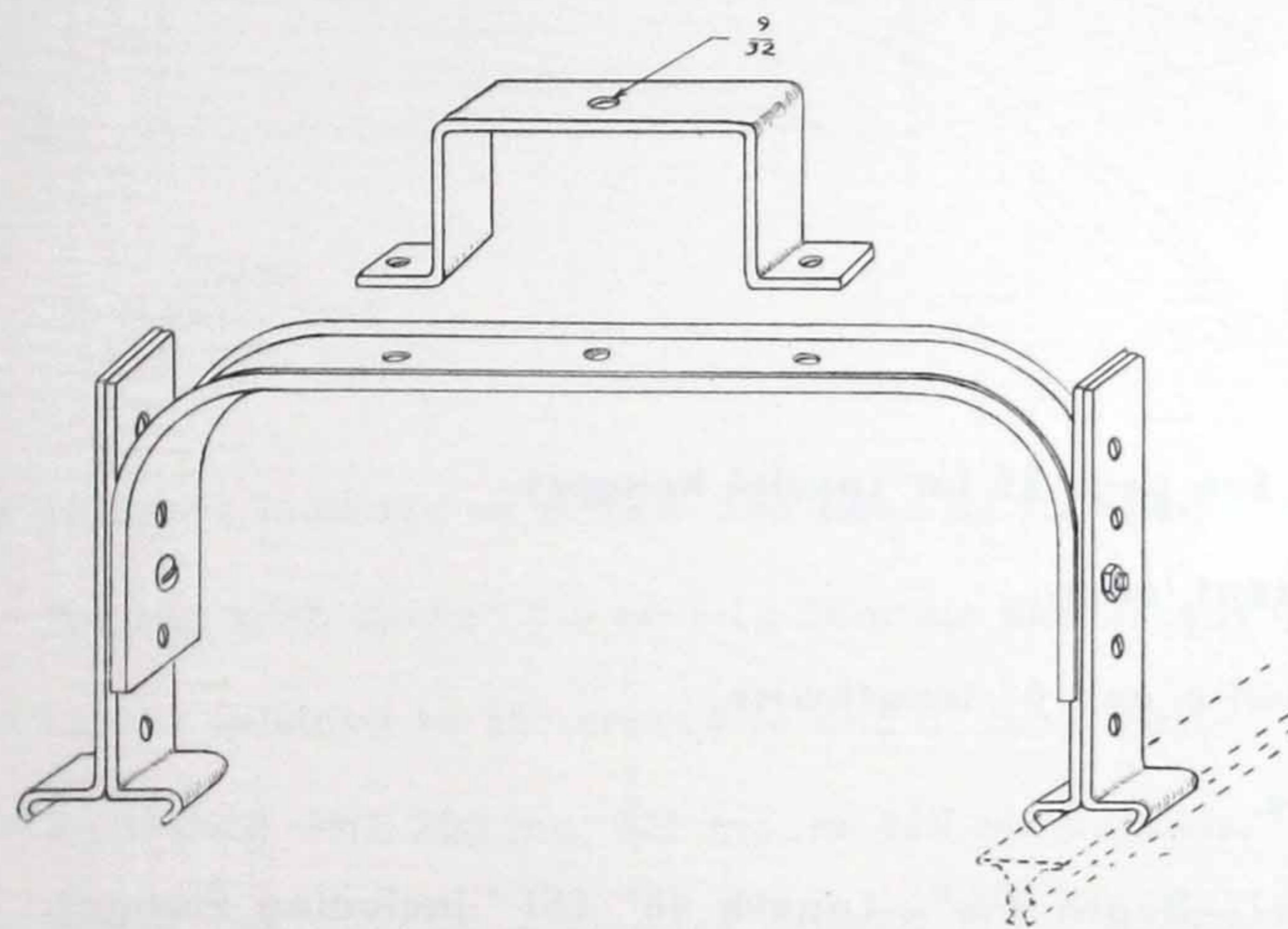
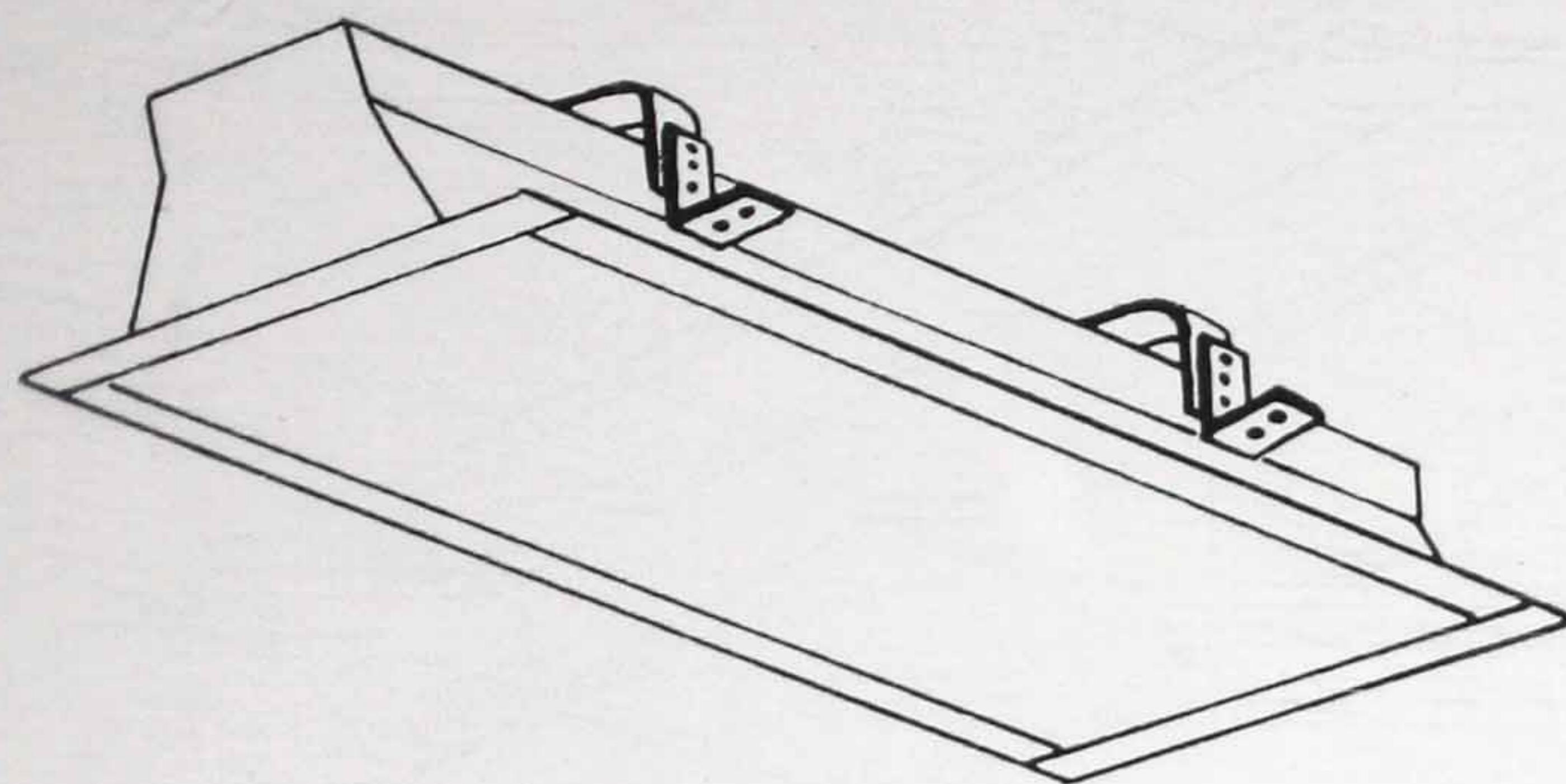


Top reflector plates are suggested for the No. 324 and No. 344 series luminaires when luminaires are surface mounted. These reflector plates attach directly to the side of the wiring channel—the outer beveled edge providing a seat for the curved glass or metal side reflectors. The side reflectors are readily removable even with the top reflector plates installed.

GILL

planned lighting troffers

The simplified construction and assembly of all Gill recessed fluorescent Troffers assures an economical and speedy installation in any type of ceiling construction.



Two adjustable $\frac{1}{4}$ " x $1\frac{3}{8}$ " steel channel U-bar hangers are supplied with each four foot Troffer. These permit adjustment from $\frac{3}{4}$ " to $5\frac{1}{2}$ " to allow for the thickness of the acoustical or plaster ceiling.

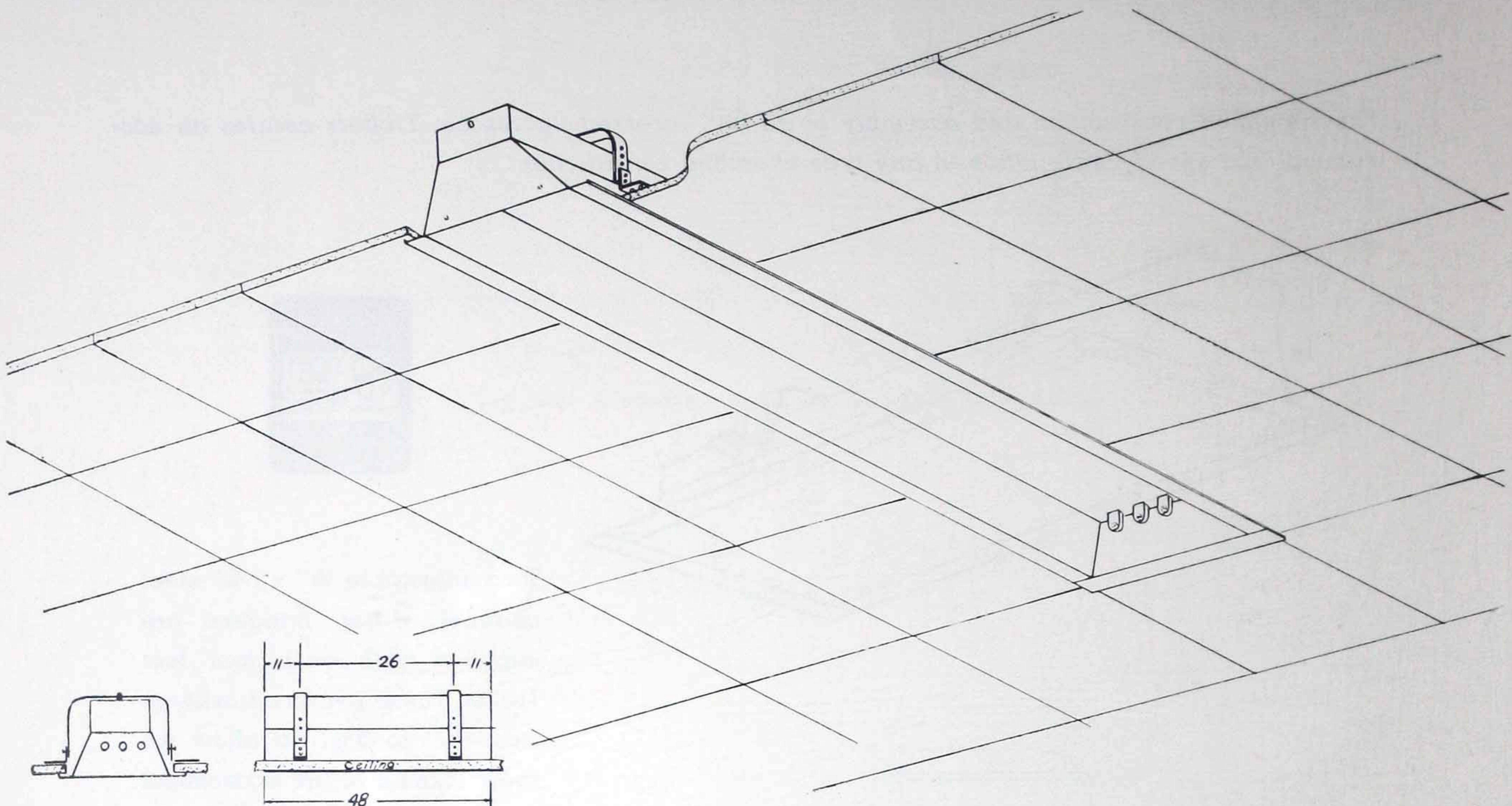
Special T-bar hanger assembly Catalog No. 6 can be furnished. See price Schedule.

Plaster rings are available for all Troffers (See page 43).

The wiring channels and reflectors are formed of 18 gauge bonderized steel. The reflectors are finished in high temperature "baked-on" white enamel. The wiring channels are finished in "baked-on" gray enamel. The basic type Troffers are complete with end plates and end ceiling finishing flanges for use in individual unit installations. The extension type Troffers do not include end plates or end ceiling finishing flanges; but do include the necessary channel connecting straps and reflector connecting stringers for continuous row installations. NOTE: Each continuous row installation requires one basic type Troffer plus the number of additional extension type Troffers to complete the "run."

Union wired, complete with high power factor two and three lamp ballasts, FS-40 starters, and carries Underwriters Laboratories' recessed Fluorescent Equipment Label.

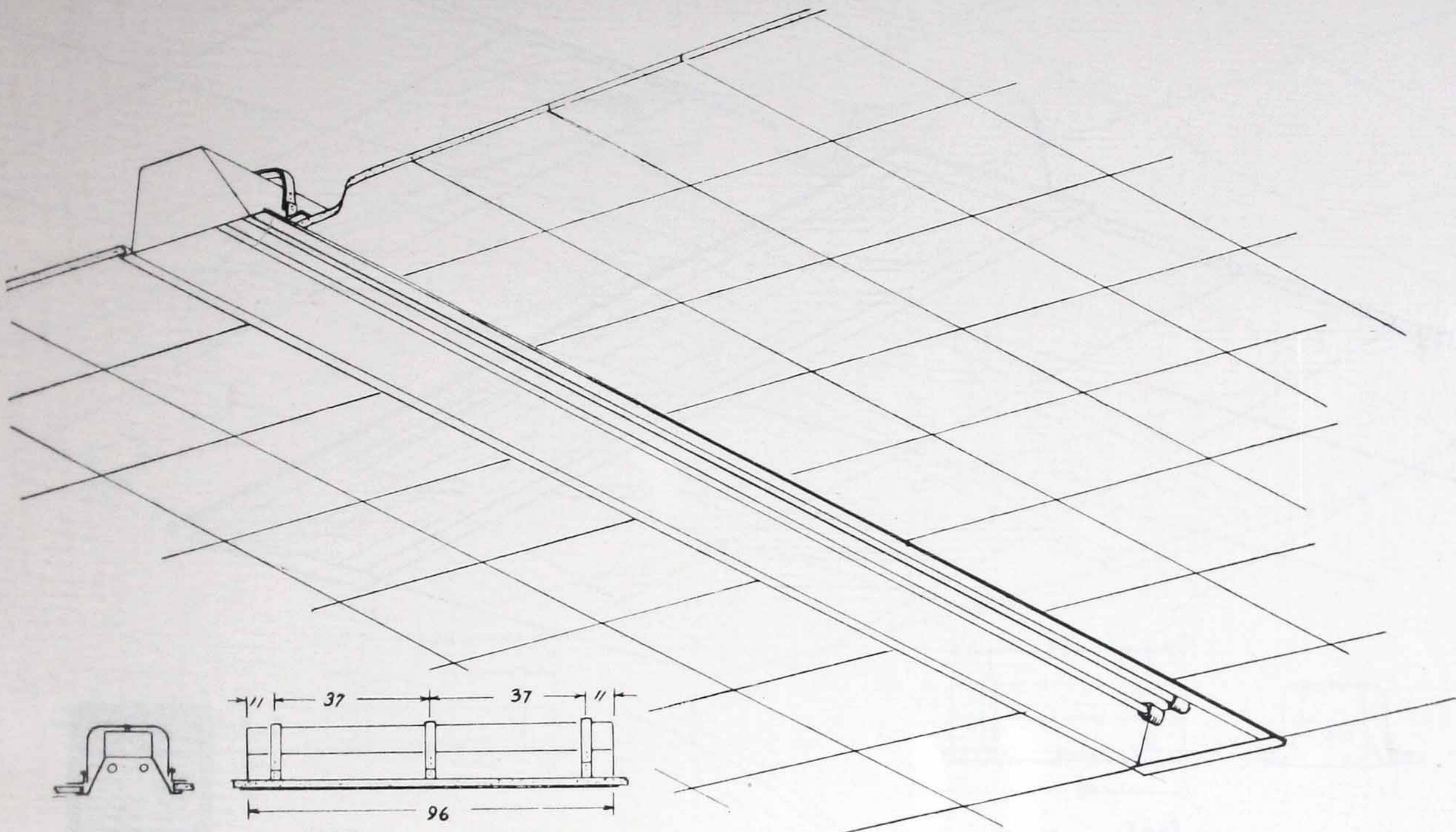
GILL planned lighting troffers



**OPEN
FLANGE TYPE
2 and 3 Lamp**

- Hangers included as shown. See page 35 for special hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Equipped with FS-40 starters.
- Width 13" (including Flange)—Depth 7 $\frac{1}{4}$ "—Length 48" (51" including Flange).
- All Troffers will fit a 12" x 48" ceiling opening.

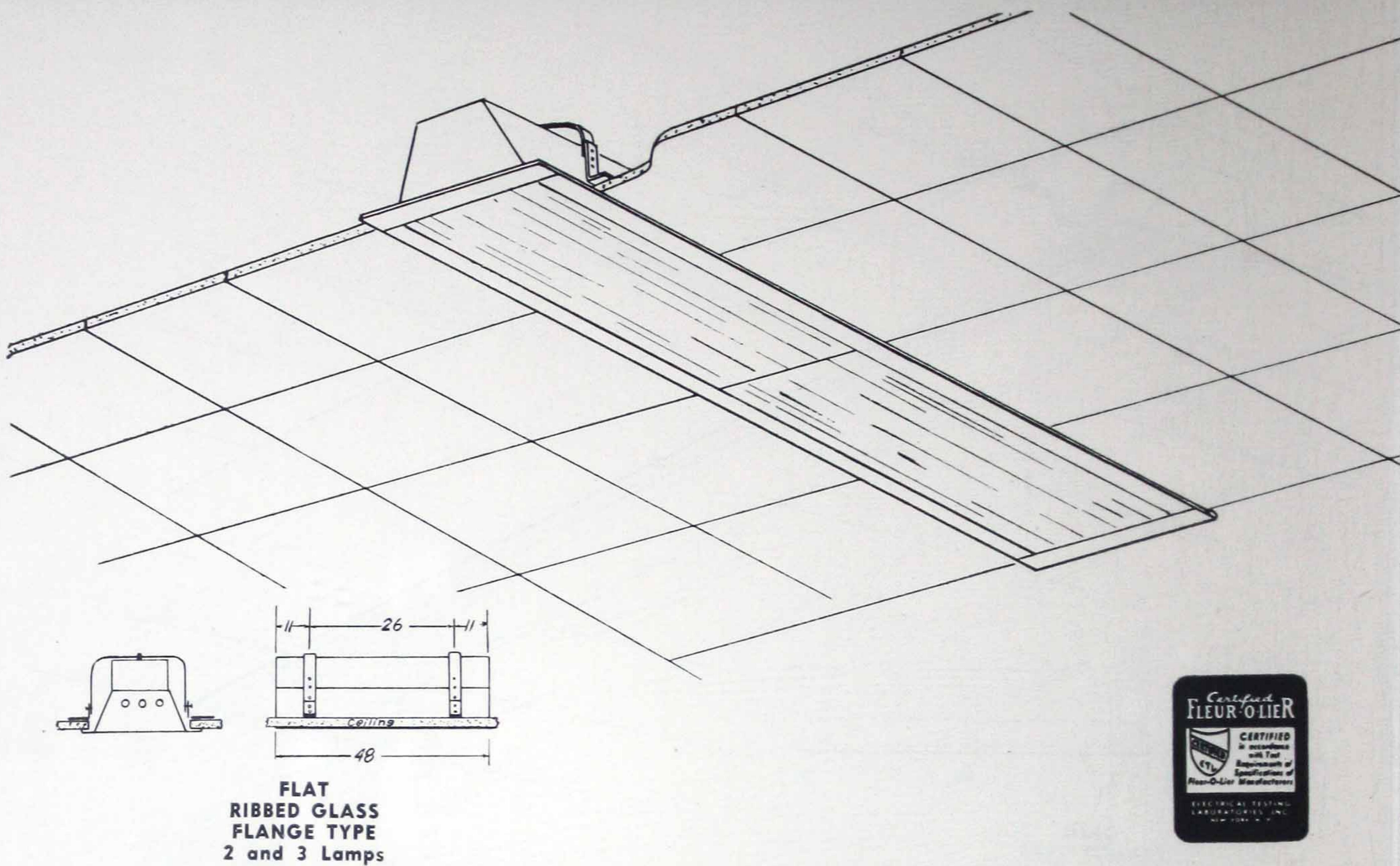
CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9802-B	Basic Type	2	35
9802-E	Extension	2	35
9803-B	Basic Type	3	39
9803-E	Extension	3	39



**OPEN
FLANGE TYPE**
2 Lamp 8 Ft. Slimline

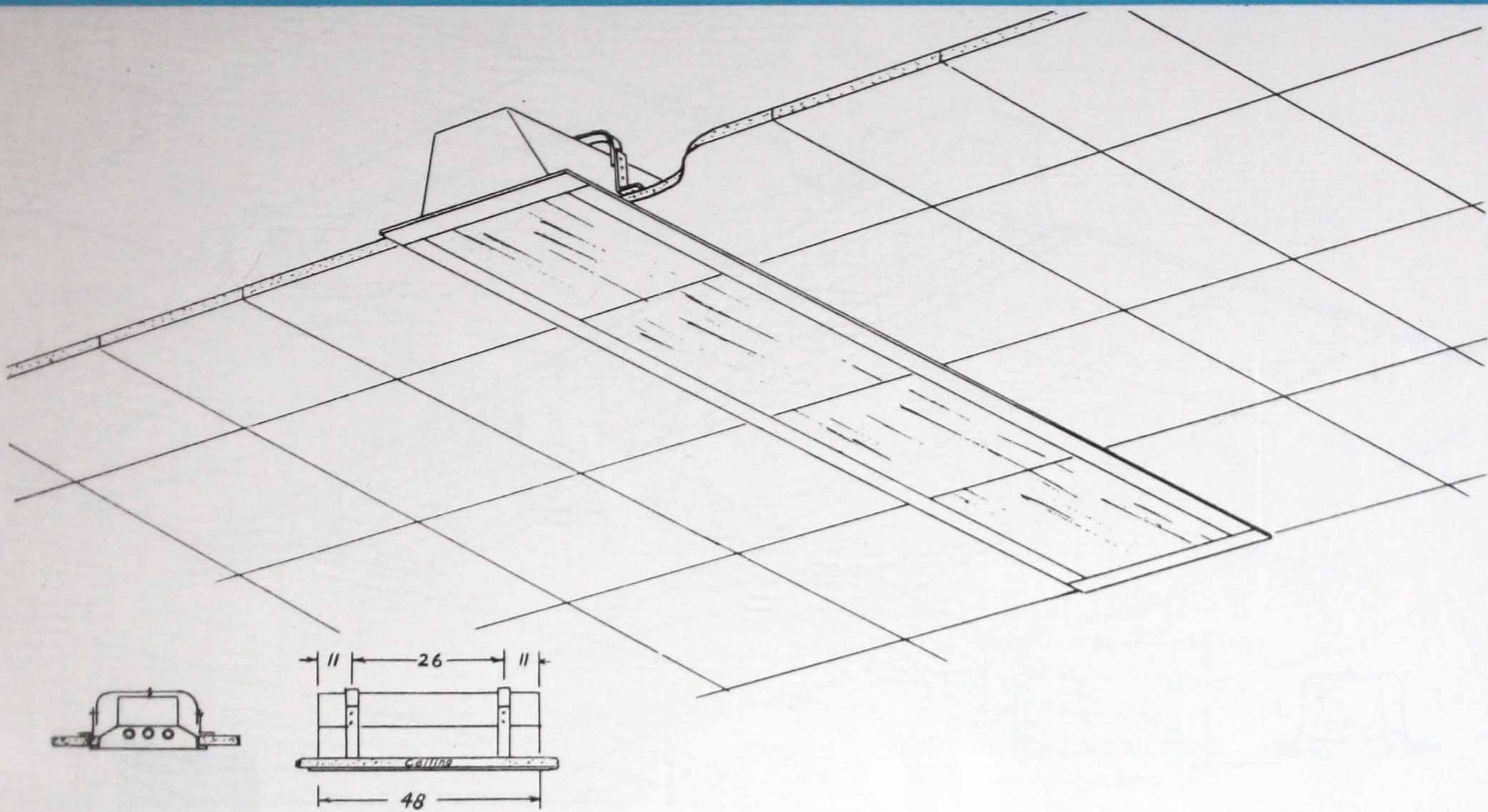
- Hangers included as shown. See page 35 for special hangers.
- For use with 2—96" T-8 or T-12 Slimline fluorescent lamps.
- Lamps shielded to 35° crosswise and 0° lengthwise.
- Furnished with 200 ma, 300 ma, or 425 ma ballasts.
- Width 13" (including Flange)—Depth 7 1/2"—Length 96" (99" including Flange).
- All Troffers will fit a 12" x 96" ceiling opening.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
SL-98028-B	Basic 300 ma	2	61 3/4 lbs.
SL-98028-B	Basic 200 ma	2	59 lbs.
SL-98028-E	Extension 300 ma	2	61 3/4 lbs.
SL-98028-E	Extension 200 ma	2	59 lbs.



- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13 $\frac{3}{4}$ " (including Flange)—Depth 6 $\frac{1}{2}$ "—Length 48" (51" including Flange).
- All Troffers will fit a 12" x 48" ceiling opening.
- See page 45 for photometric data.

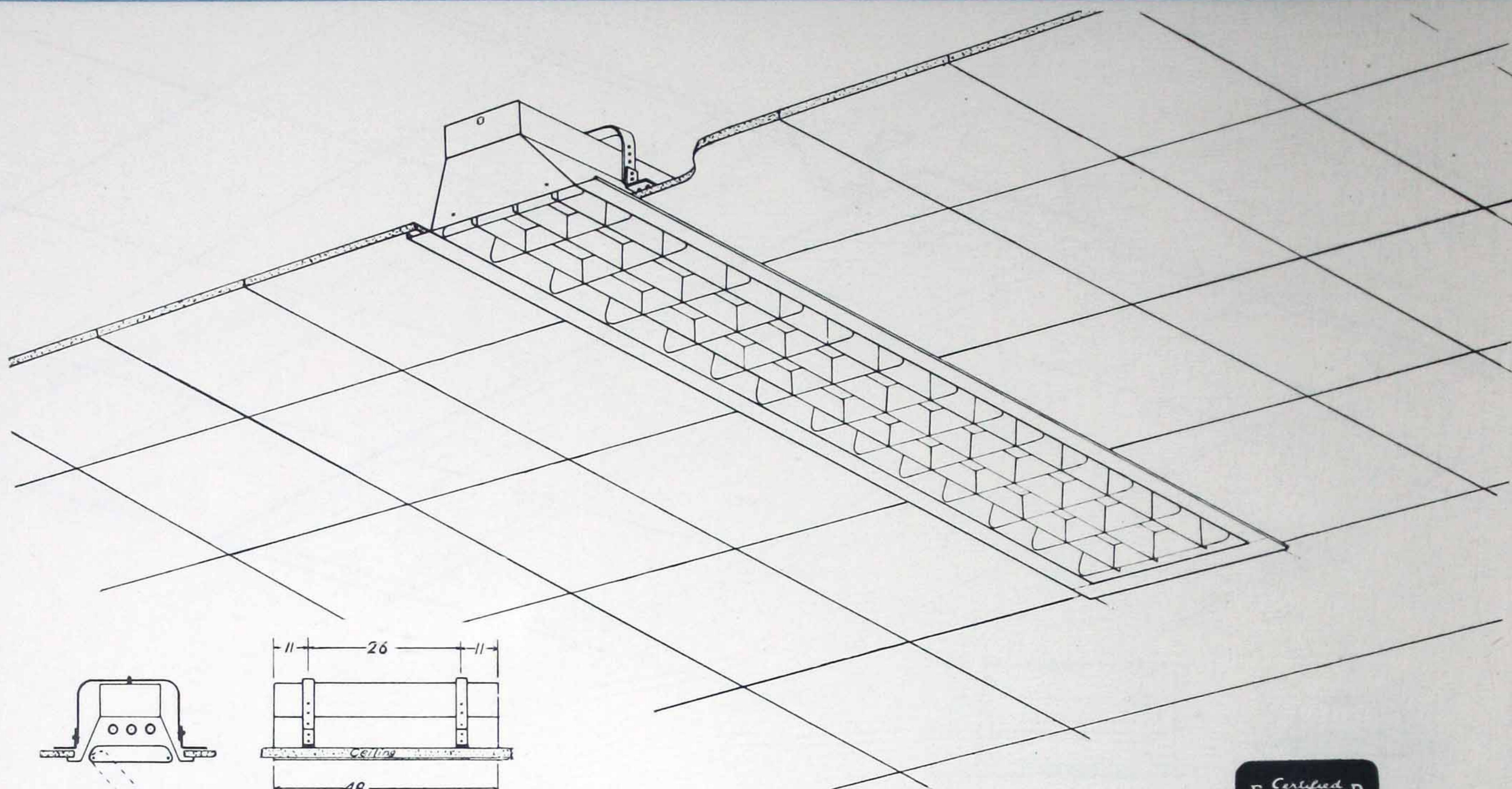
CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9832-B	Basic Type	2	44
9832-E	Extension Type	2	42
9833-B	Basic Type	3	48
9833-E	Extension Type	3	46



**FLAT
GLASS LENS
FLANGE TYPE
2 and 3 Lamp**

- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13 3/4" (including Flange)—Depth 6 1/2"—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9842-B	Basic Type	2	39 1/2 lbs.
9842-E	Extension Type	2	39 1/2 lbs.
9843-B	Basic Type	3	43 1/2 lbs.
9843-E	Extension Type	3	43 1/2 lbs.

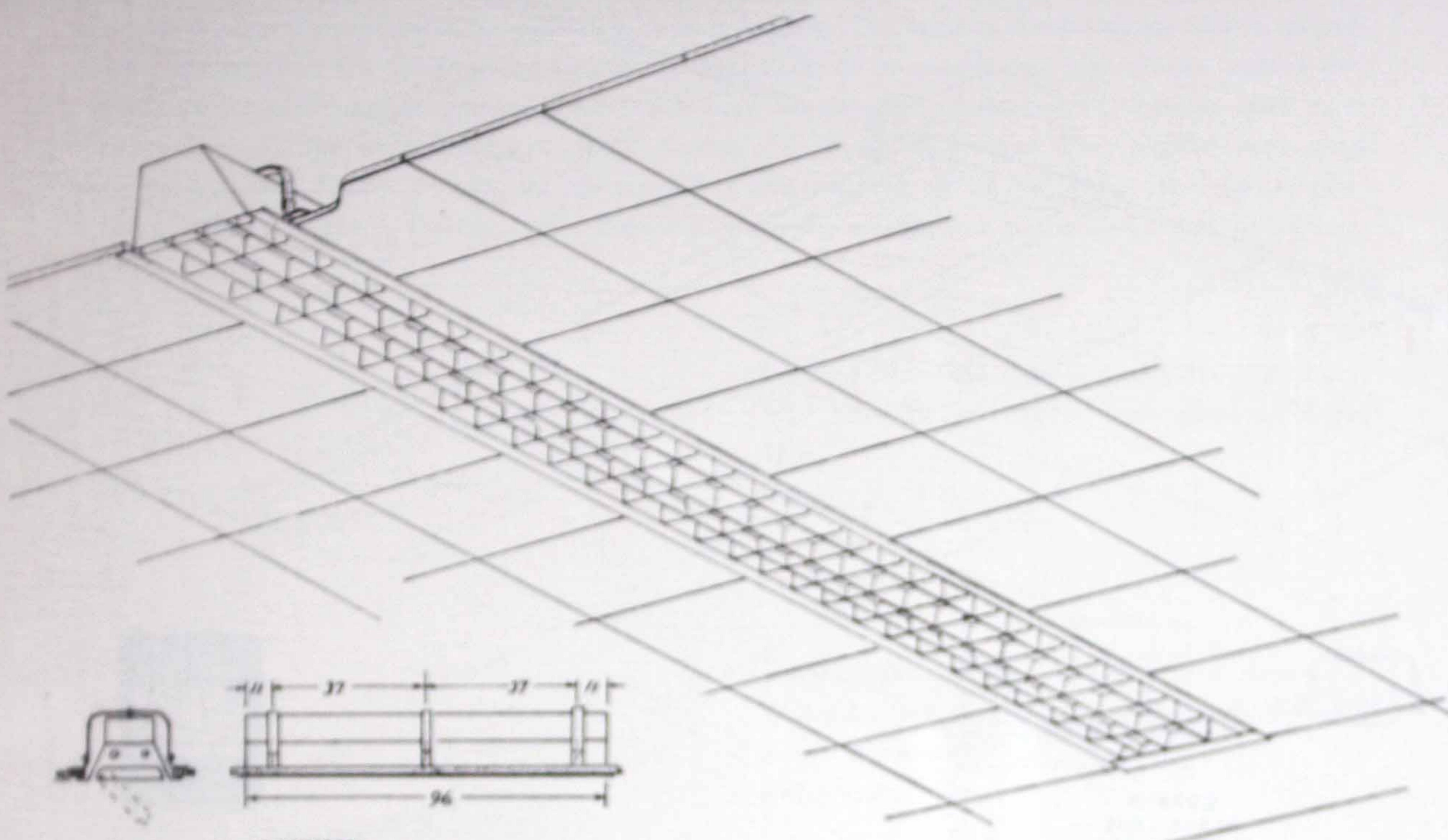


LOUVRED
FLANGE TYPE
2 and 3 Lamp



- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 35° crosswise and 25° lengthwise.
- Equipped with FS-40 starters.
- Width 13" (including Flange)—Depth 7 $\frac{1}{4}$ "—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.
- See pages 46 and 47 for photometric data.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9852-B	Basic Type	2	41 lbs.
9852-E	Extension Type	2	38 lbs.
9853-B	Basic Type	3	45 lbs.
9853-E	Extension Type	3	42 lbs.

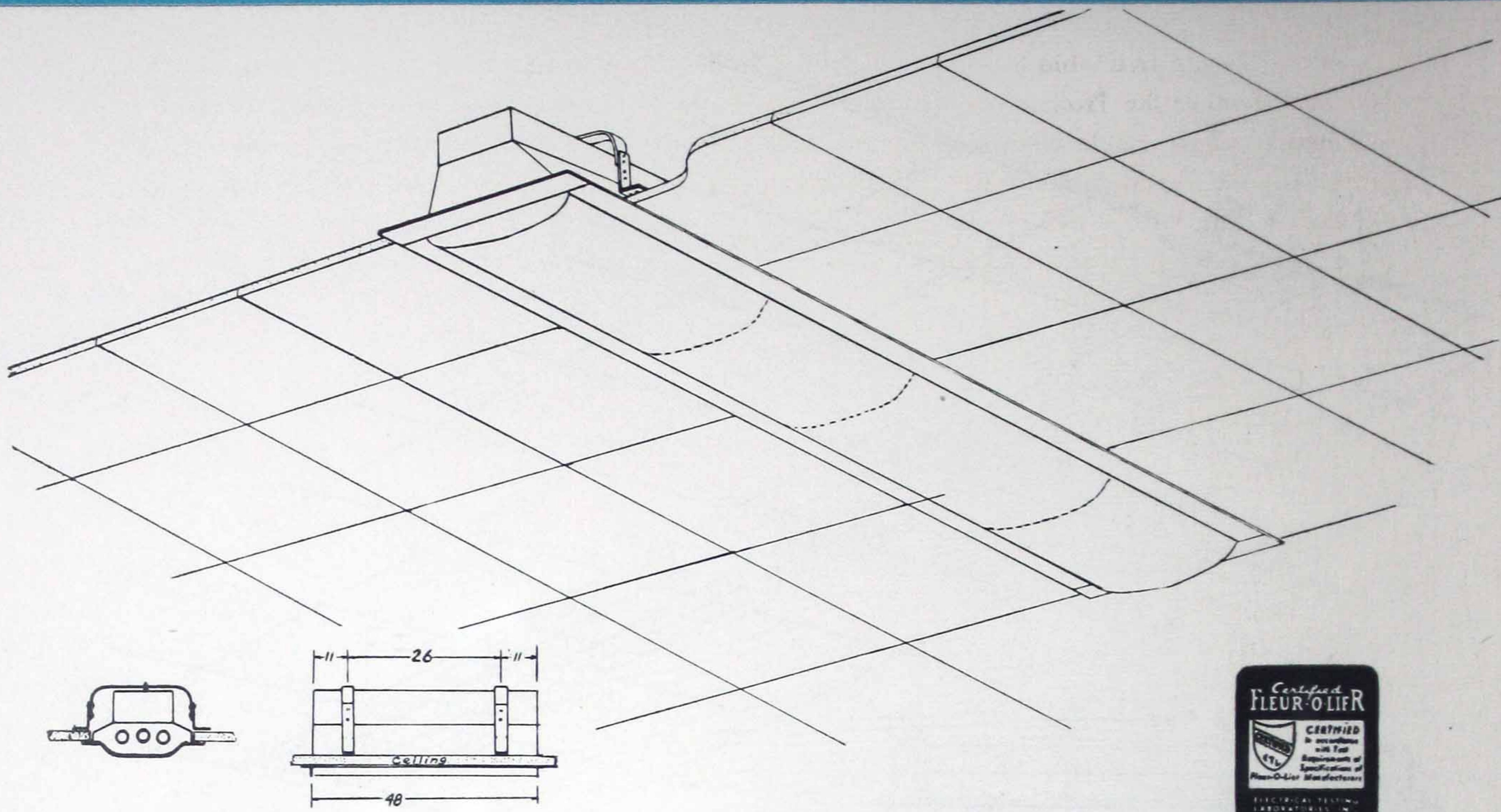


LOUVRED
FLANGE TYPE
2 Lamp 8' Slimline

- Hangers included as shown. See page 35 for special Hangers.
- For use with 2—96" T-8 or T-12 slimline fluorescent lamps.
- Lamps shielded to 35° crosswise and 25° lengthwise.
- Furnished with 200 ma, 300 ma, or 425 ma.
- Width 13" (including Flange)—Depth 7½"—Length 96" (99" including Flange).
- All troffers will fit a 12" x 96" ceiling opening.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
SL-98528-B	Basic 300 ma	2	74½ lbs.
SL-98528-B	Basic 200 ma	2	72 lbs.
SL-98528-E	Extension 300 ma	2	74½ lbs.
SL-98528-E	Extension 200 ma	2	72 lbs.

GILL planned lighting troffers



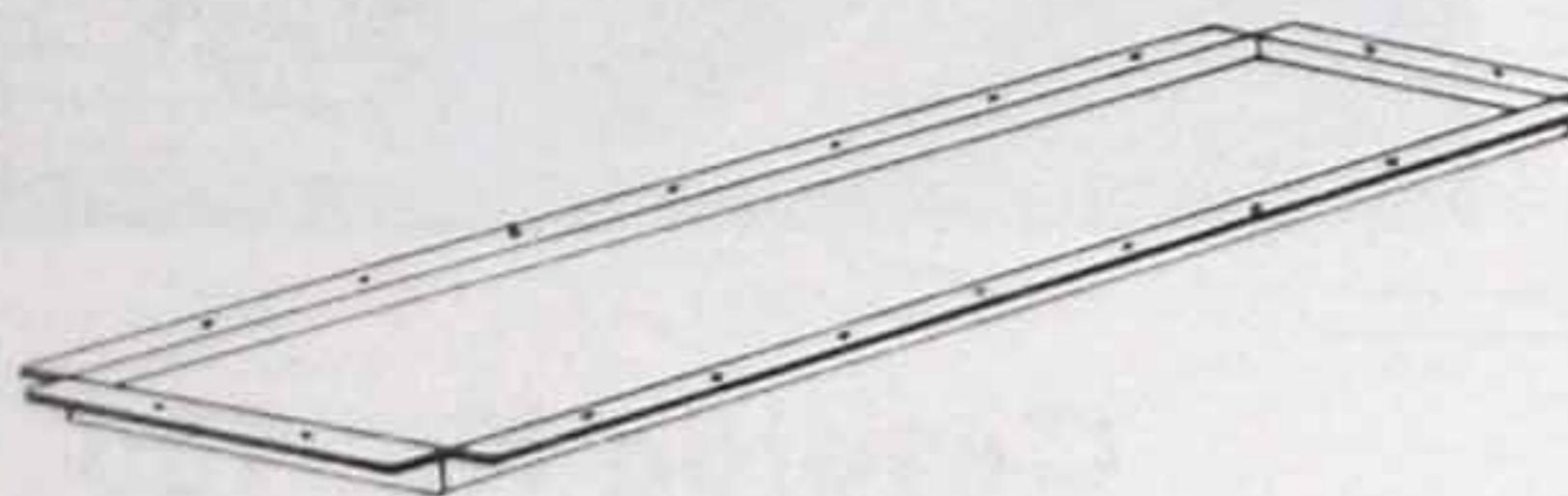
**CURVED
GLASS LENS
FLANGE TYPE
2 and 3 Lamp**

- Hangers included as shown. See page 35 for special Hangers.
- For use with 40 watt fluorescent lamps.
- Lamps shielded to 90° crosswise and 90° lengthwise.
- Equipped with FS-40 starters.
- Width 13 $\frac{1}{4}$ " (including Flange)—Depth 6"—Length 48" (51" including Flange).
- All troffers will fit a 12" x 48" ceiling opening.
- See pages 48 and 49 for photometric data.

CATALOG NUMBER	DESCRIPTION	NO. LAMPS	NET WEIGHT
9862-B	Basic Type	2	50 lbs.
9862-E	Extension Type	2	48 lbs.
9863-E	Basic Type	3	54 lbs.
9863-E	Extension Type	3	52 lbs.

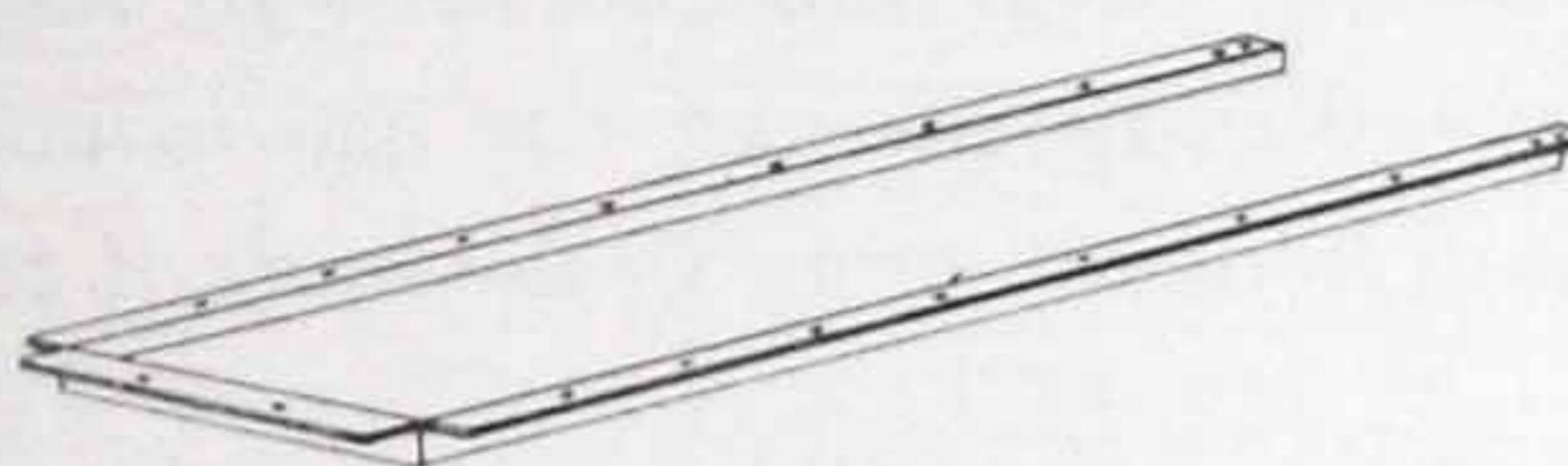
GILL planned lighting troffer accessories

Plaster frames are available for all Gill recessed Troffers. The various combinations shown permit their use whether the Troffers are installed individually or in continuous runs. These frames are designed to allow ample clearance for the Troffer equipment and, of course, can be used as a plaster ground. The wide flanges of all Gill Troffer units completely cover these plaster rings upon installation. The Plaster frames are die formed of rust resisting $\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{3}{2}$ " steel amply provided with $\frac{1}{4}$ " holes in the horizontal flange member for attachment to the metal lath or furring.



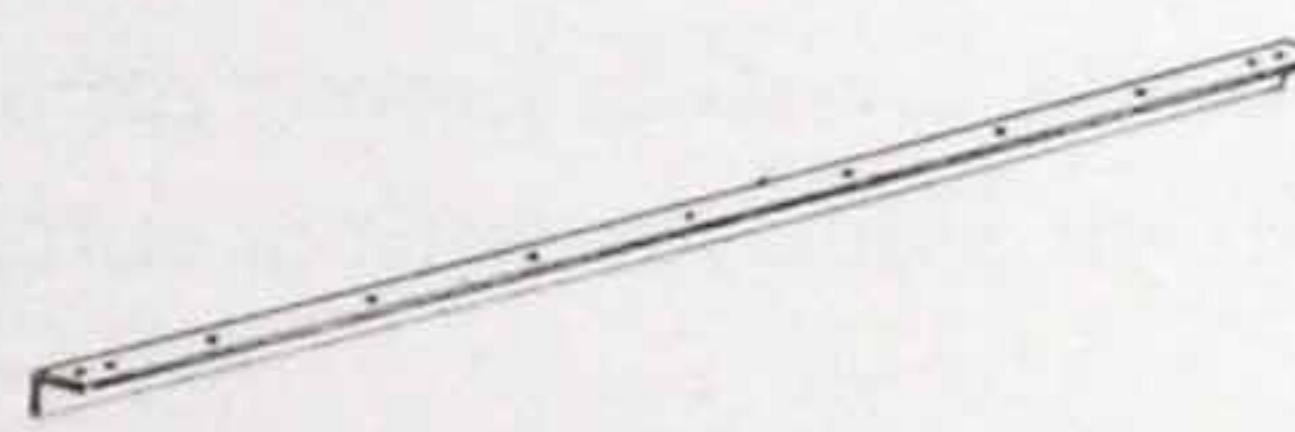
Catalog No. 9880 plaster frame for individual four foot Troffer. Inside dimensions $12\frac{3}{8}$ " x $48\frac{1}{2}$ ".

Net weight 6 lbs.



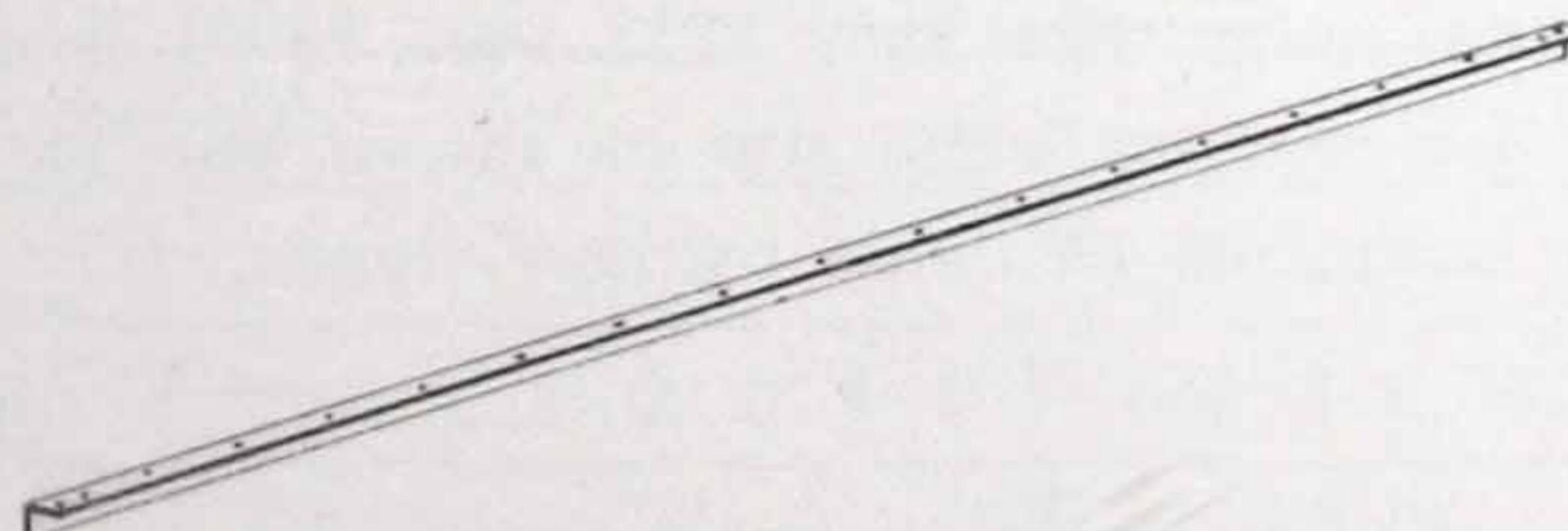
Catalog No. 9880-E plaster frame (one end open) for use on continuous line installations. Inside dimensions $12\frac{3}{8}$ " x $48\frac{1}{2}$ ".

Net weight 5 lbs.



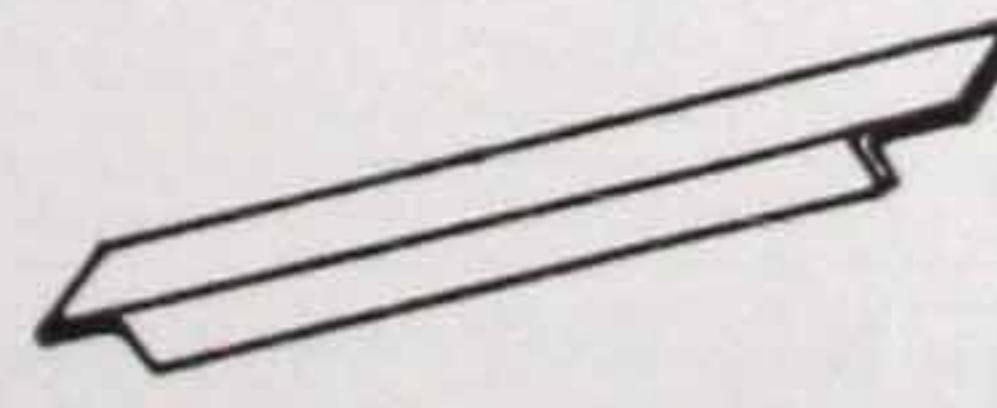
Catalog No. 9882-R 96" long extension rail.

Net weight 5 lbs.



Catalog No. 9880-R 48" long extension rail.

Net weight $2\frac{1}{2}$ lbs.



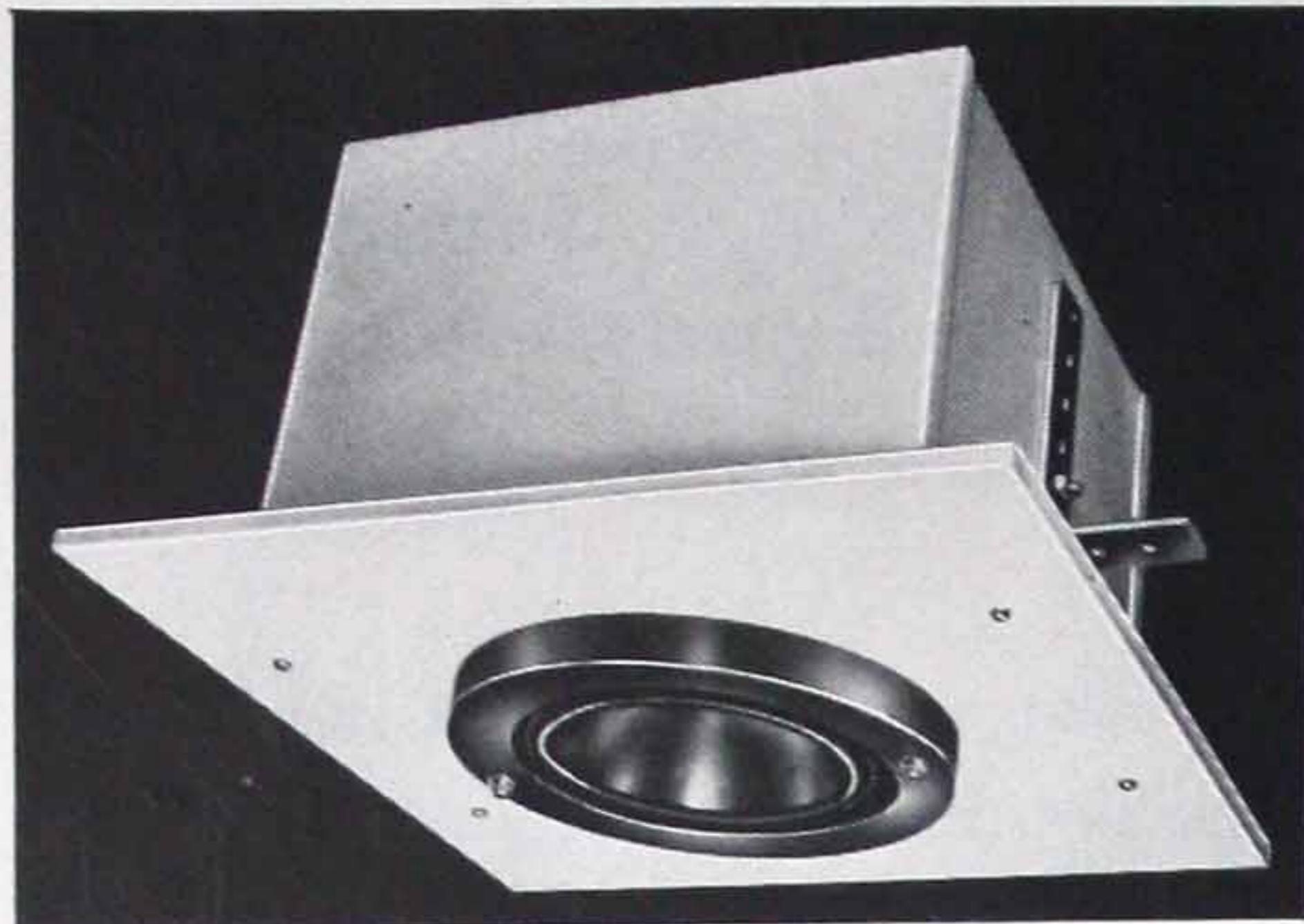
Catalog No. 9880-S spacer template for use when installing plaster frames.

Net weight $\frac{1}{2}$ lb.



Catalog No. 9880-C extension rail connector.

Net weight $\frac{1}{2}$ lb.



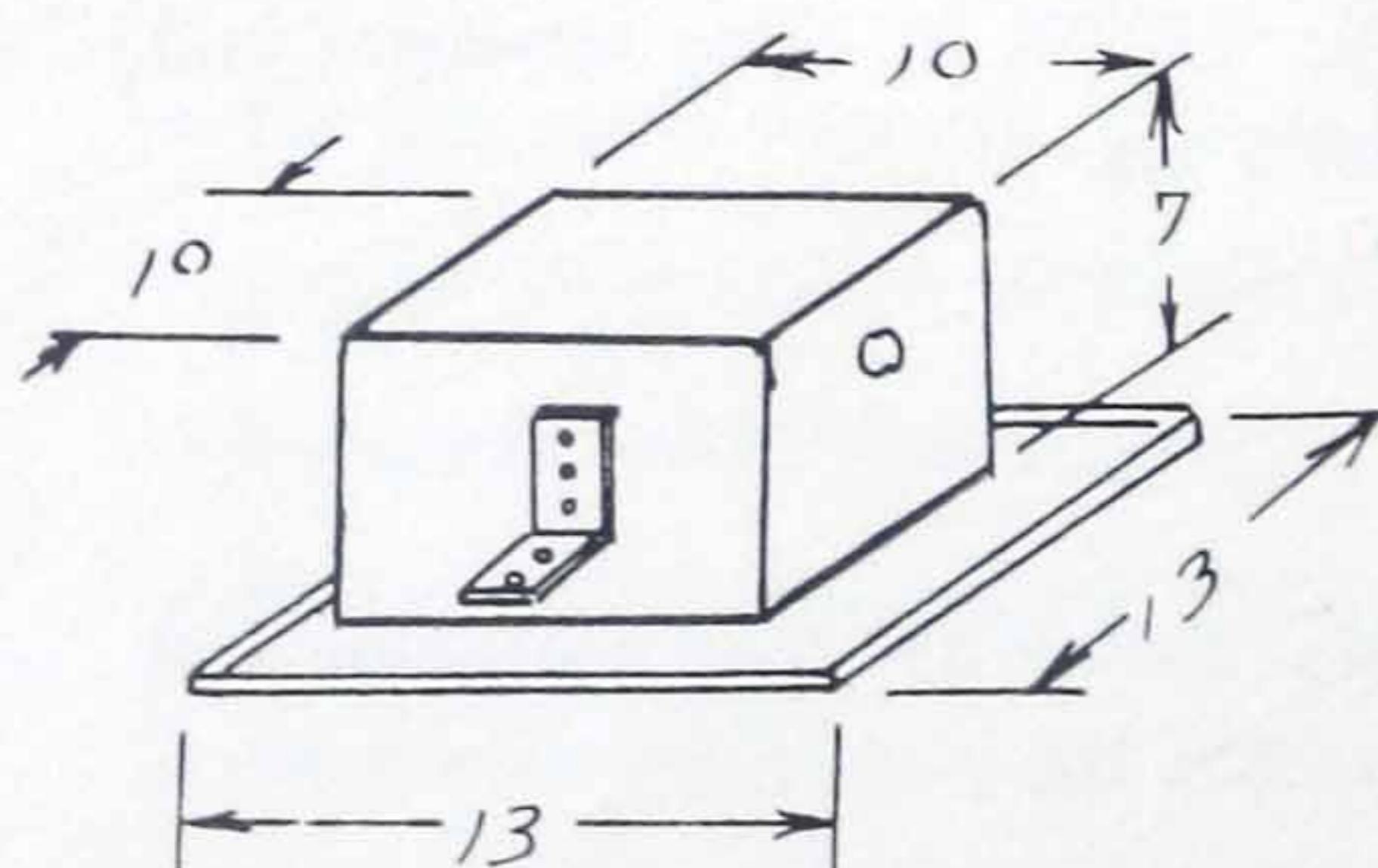
Catalog No. 950



Catalog No. 950

(with No. L-150 Louver)

An all metal "Down-Lighting" recessed unit having universal gimbel ring adjustment, using the 150 watt PAR "side-prong" base incandescent lamp. Bottom cover finished in high temperature "baked-on" white enamel, recessing box finished in baked gray enamel. For use in conjunction with the foregoing fluorescent Troffer series, for attachment between units, at the ends of continuous rows, or separately.



Catalog No. 950-B—Individual unit (as shown). For use when installed separately from the Troffer units. Adjustable angle brackets permit rapid installation. $\frac{3}{4}$ " knockout on sides for wiring entrance.

Catalog No. 950-C—End Unit—for use at the ends of Troffer units. (Nos. 9852, 9853, 9802, 9803). Recessing box remains same size as shown but bottom cover measures 13" wide by $11\frac{7}{8}$ " long.

Catalog No. 950-E—Center Unit, for use between Troffers Nos. 9852-9853, 9802-9803, when used in a continuous row. Recessing box remains same as shown, but bottom cover measures 13" wide by 10" long.

Catalog No. 951-C—End Unit, for use at the ends of Troffers Nos. 9862, 9863, 9832, 9833, 9842, 9843. Recessing box remains same size as shown, but bottom cover measures $11\frac{7}{8}$ " wide by $13\frac{3}{8}$ " long.

Catalog No. 951-E—Center unit, for use between Troffers Nos. 9862-9863, 9832-9833, 9842-9843. Recessing box remains same size as shown; but bottom cover measures 10" wide by $13\frac{7}{8}$ " long.

REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79th STREET, NEW YORK 21, N. Y.

Report No. 330021

Order No. 19487-L

Plate No. 55546

Date February 2, 1949

CANDLEPOWER DISTRIBUTION

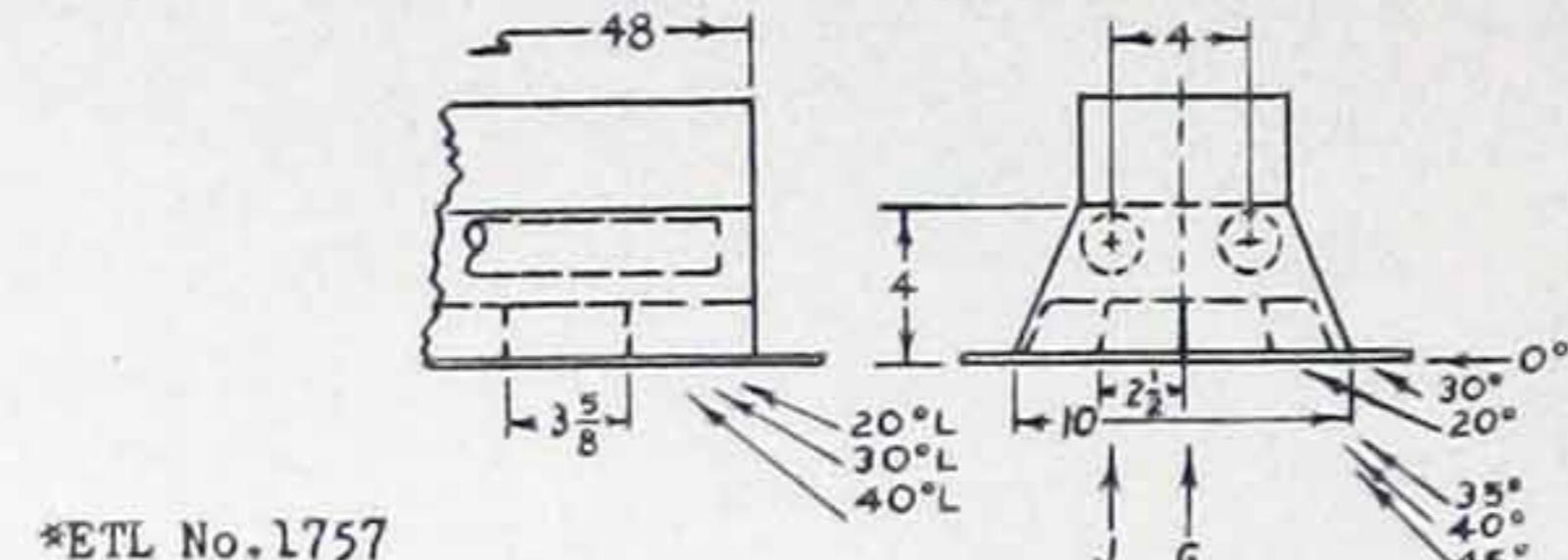
CAT. NO. 9852B RECESSED FLUORESCENT LUMINAIRE*

TYPE - D-35-20-2-R

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12
White Fluorescent.
Unit - Synthetic enameled metal housing and eggcrate
louver, reflectance 0.88.
Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit; A-A
normal, B-B parallel and C-C 45° to the tubes.
Maximum temperature rise - 58 C; specified max. 65 C



*ETL No. 1757

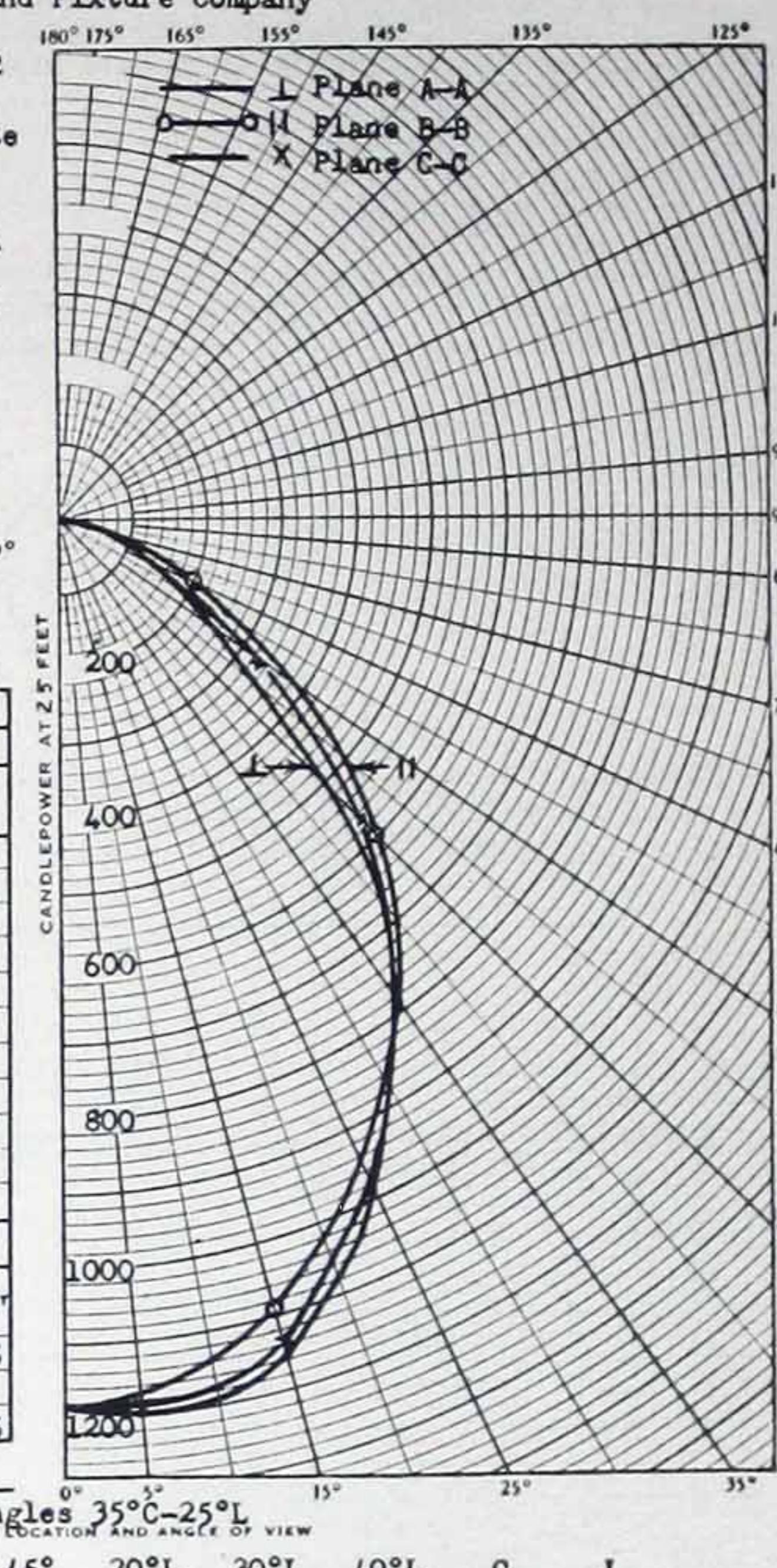
LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° (R)		90° (R)	0		
175°		85°	17.7	19	
165°		75°	76.5	81	
155°		65°	162	161	
145°		55°	325	201	
135°		45°	560	434	
125°		35°	780	490	
115°		25°	975	452	
105°		15°	1130	320	
95°		5°	1190	113	
		0° (NADIR)	1190		

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	2361	51.5
0°-40°	1375	30.0	90°-180°	-	-
0°-60°	2100	45.5	0°-180°	2361	51.5

LUMINAIRE BRIGHTNESS										Shielding Angles 35°-25°L	
ANGLES	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L	0	J
45° 35° 25° LUMINARIES	0	0.99	1.3	2.3	3.1	3.5	1.2	2.0	3.3	1.9	5.0

TESTED BY *John* PLOTTED BY *John* COMPUTED BY *John* CHECKED BY *John* ISSUED February 2, 1949
REPORT APPROVED BY *William T. Gill* IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ACCURACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.

UTILIZATION FACTORS FOR
CAT. NO. 9852-B TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%				50%				30%			
WALLS	50%	30%	10%	50%	30%	10%	30%	10%	30%	10%	30%	10%
ROOM INDEX	C O E F F I C I E N T O F U T I L I Z A T I O N											
J. 0.6	0.29	0.26	0.25	0.28	0.26	0.25	0.27	0.25	0.27	0.25	0.27	0.25
I. 0.8	0.34	0.33	0.32	0.34	0.32	0.31	0.32	0.31	0.32	0.31	0.32	0.30
H. 1.0	0.37	0.36	0.35	0.36	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.34
G. 1.25	0.39	0.38	0.38	0.39	0.38	0.38	0.37	0.37	0.37	0.37	0.37	0.37
F. 1.5	0.41	0.40	0.39	0.40	0.39	0.39	0.39	0.38	0.39	0.39	0.38	0.38
E. 2.0	0.43	0.43	0.41	0.43	0.42	0.41	0.41	0.41	0.41	0.41	0.40	0.40
D. 2.5	0.46	0.44	0.43	0.45	0.44	0.43	0.43	0.43	0.43	0.43	0.43	0.43
C. 3.0	0.47	0.46	0.44	0.46	0.45	0.44	0.44	0.44	0.44	0.44	0.43	0.43
B. 4.0	0.48	0.46	0.46	0.47	0.45	0.45	0.45	0.45	0.45	0.45	0.44	0.44
A. 5.0	0.48	0.47	0.46	0.47	0.46	0.46	0.45	0.45	0.46	0.45	0.45	0.45

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

GILL planned lighting luminaires

REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N.Y.

Report No. 330022

Order No. 19487-L

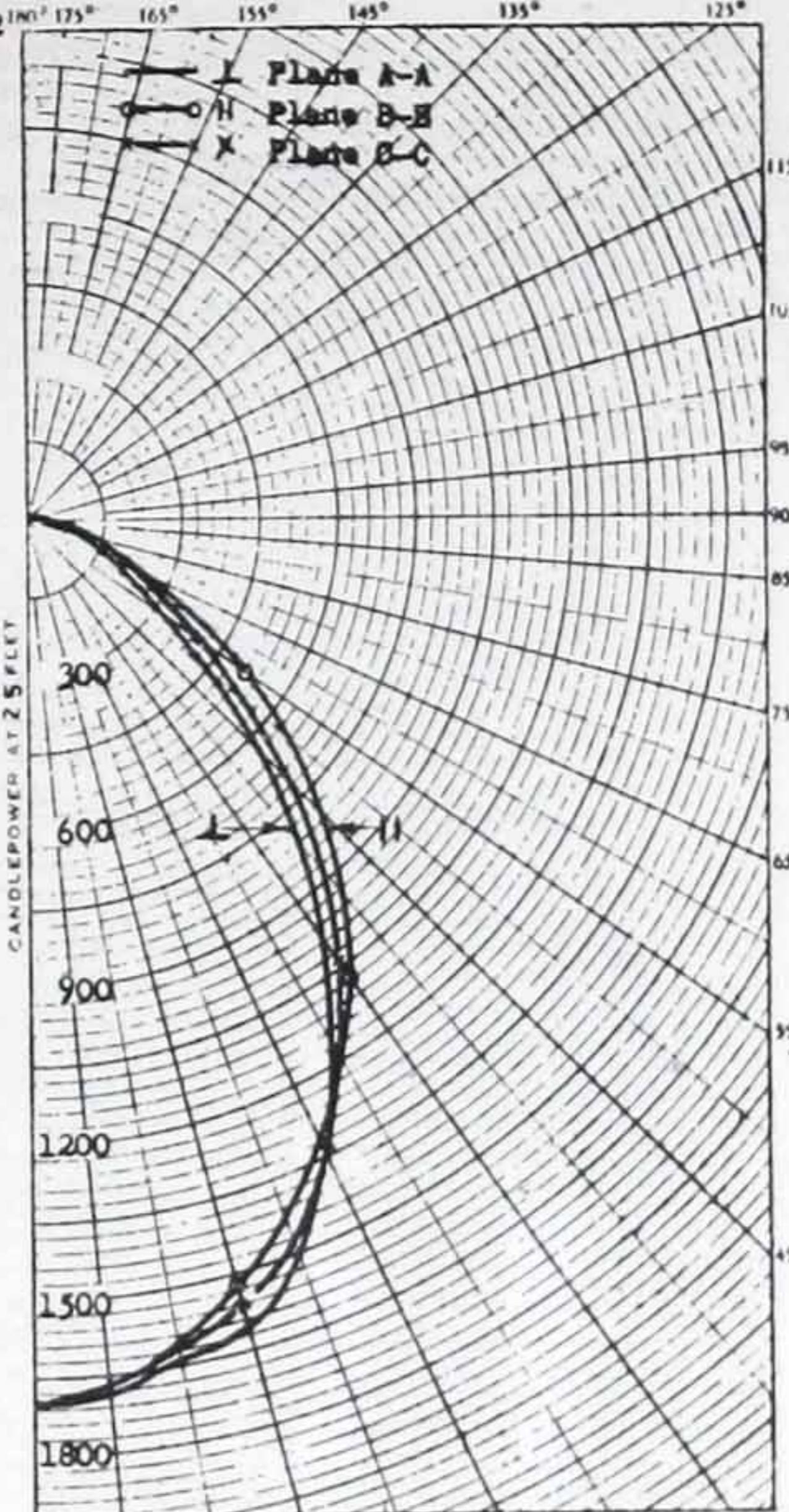
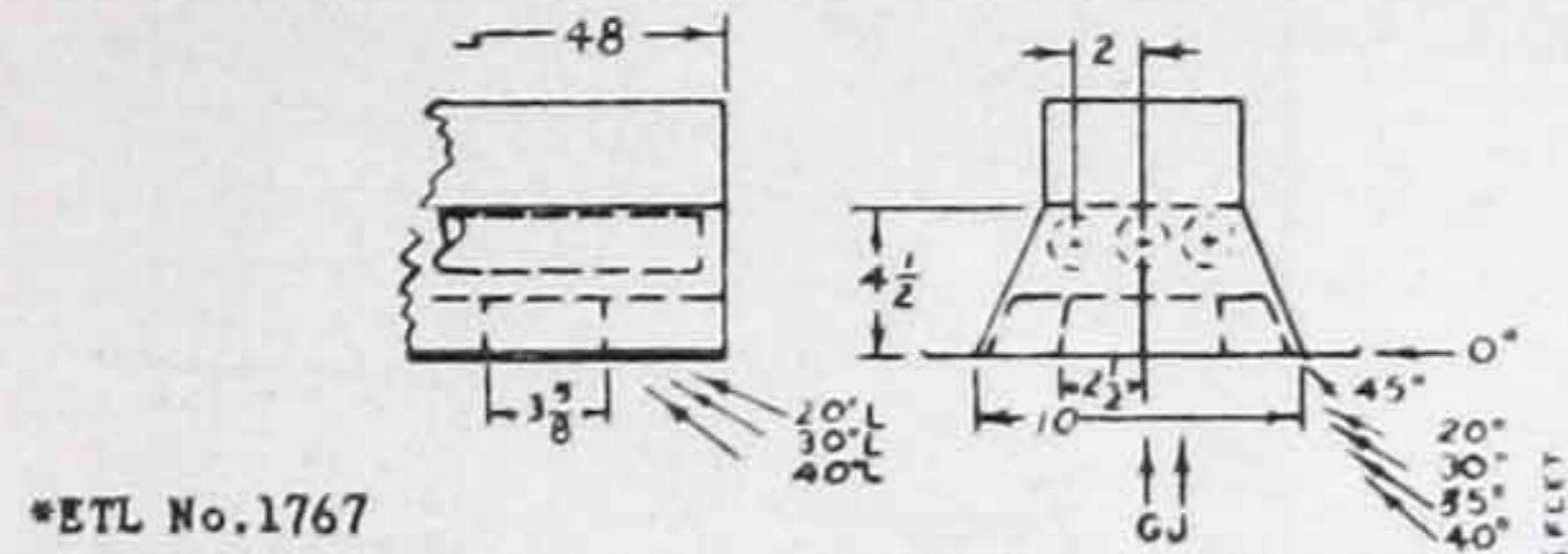
Plate No. 55547

Date February 2, 1949

CANDLEPOWER DISTRIBUTION
CAT. NO. 9853B RECESSED FLUORESCENT LUMINAIRE*
TYPE - DIRECT

Rendered to Gill Glass and Fixture Company

Lamps - Three - 40 Watts; 118 Volts; 2300 Lumens; T-12
White Fluorescent.
Unit - Synthetic enameled metal housing and eggcrate
louver, reflectance 0.86.
Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit; A-A
normal, B-B parallel and C-C 45° to the tubes.
Maximum temperature rise - 66°C



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MO. ZONE ANGLES	CANDLEPOWER AT 25°KFT	ZONAL LUMENS	MO. ZONE ANGLES	CANDLEPOWER AT 25°KFT	ZONAL LUMENS
180°	90°	0	90°	90°	0
175°	85°	21.8	85°	85°	24
165°	75°	97.0	75°	75°	103
155°	65°	200	65°	65°	199
145°	55°	404	55°	55°	362
135°	45°	705	45°	45°	546
125°	35°	1020	35°	35°	641
115°	25°	1330	25°	25°	616
105°	15°	1560	15°	15°	442
95°	5°	1670	5°	5°	159
0° BASE					
1690					

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°	3092	45.0	0°-90°	3092	45.0
0°-40°	1858	27.0	90°-180°	-	-
0°-60°	2766	40.0	0°-180°	3092	45.0

LUMINAIRE BRIGHTNESS									
Shielding Angle 35°C-25°L									
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW									
ANGLES	0°	20°	30°	35°	40°	45°	20°L	30°L	40°L
0/50/100	0	1.4	1.7	2.8	3.7	4.6	1.7	3.7	5.8
100/150/200	-	-	-	-	-	-	-	-	6.4
200/250/300	-	-	-	-	-	-	-	-	7.0

TESTED BY *John* PLOTTED BY *John* COMPUTED BY *John* CHECKED BY *John* ISSUED February 2, 1949
REPORT APPROVED BY *W. E. Gill* IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE ADEQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.

UTILIZATION FACTORS FOR CAT. NO. 9853-B THREE 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%		
WALLS	50%	30%	10%	50%	30%	10%	30%	10%	
ROOM INDEX	COEFFICIENT OF UTILIZATION								
J. 0.6	0.27	0.24	0.23	0.26	0.24	0.23	0.25	0.23	
I. 0.8	0.32	0.31	0.30	0.32	0.30	0.29	0.30	0.28	
H. 1.0	0.35	0.34	0.33	0.34	0.33	0.33	0.33	0.32	
G. 1.25	0.36	0.35	0.35	0.36	0.35	0.35	0.35	0.35	
F. 1.5	0.38	0.37	0.36	0.37	0.36	0.35	0.36	0.35	
E. 2.0	0.40	0.40	0.38	0.40	0.39	0.38	0.38	0.37	
D. 2.5	0.43	0.41	0.41	0.42	0.41	0.40	0.40	0.41	
C. 3.0	0.44	0.43	0.41	0.43	0.42	0.41	0.41	0.40	
B. 4.0	0.45	0.43	0.43	0.44	0.42	0.42	0.42	0.41	
A. 5.0	0.45	0.44	0.43	0.44	0.43	0.42	0.44	0.42	

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N.Y.

Report No. 330736

Order No. 19487-L

Plate No. 55744

Date March 24, 1949

CANDLEPOWER DISTRIBUTION

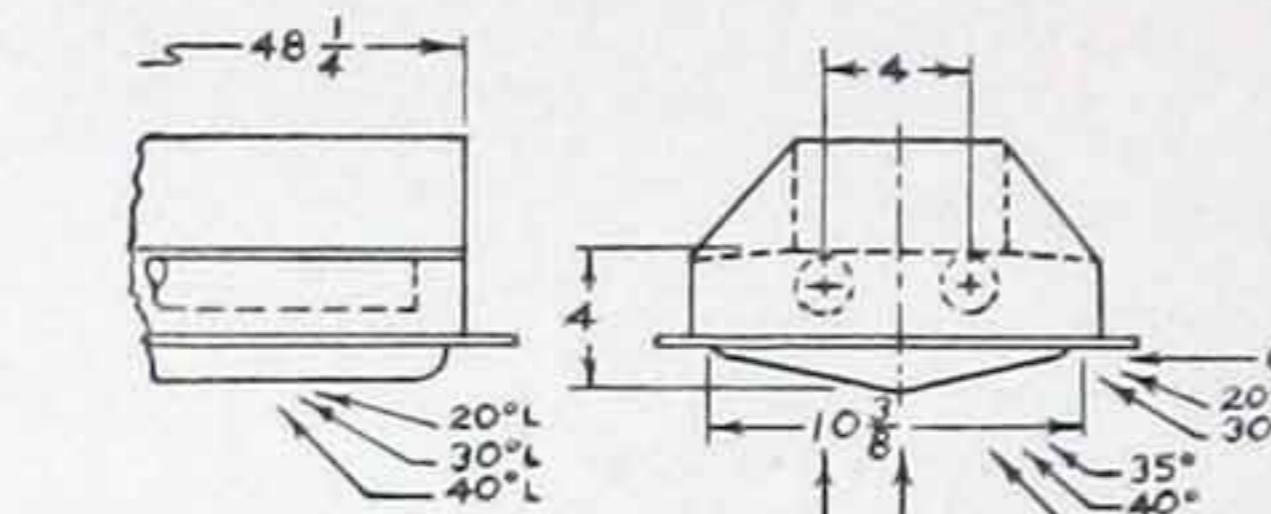
CAT. NO. 9862B RECESSED FLUORESCENT LUMINAIRE*

TYPE - DIRECT-90-90-3-R

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

Lamps - Two - 40 Watts; 118 Volts; 2300 Lumens; T-12
White Fluorescent.
Unit - Synthetic enameled metal housing, reflectance
0.88; curved, ribbed glass panel.
Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit.
Maximum temperature rise - 54°C; specified max. 65°C
*ETL No. 1783



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° H.D.		90° RAD.	89.5		
175°		85°	133	145°	
165°		75°	212	224	
155°		65°	303	301	
145°		55°	440	395	
135°		45°	660	511	
125°		35°	840	524	
115°	0	25°	895	414	
105°	7.8	8	930	263	
95°	14.4	49	950	90	
		0° RAD.	955		

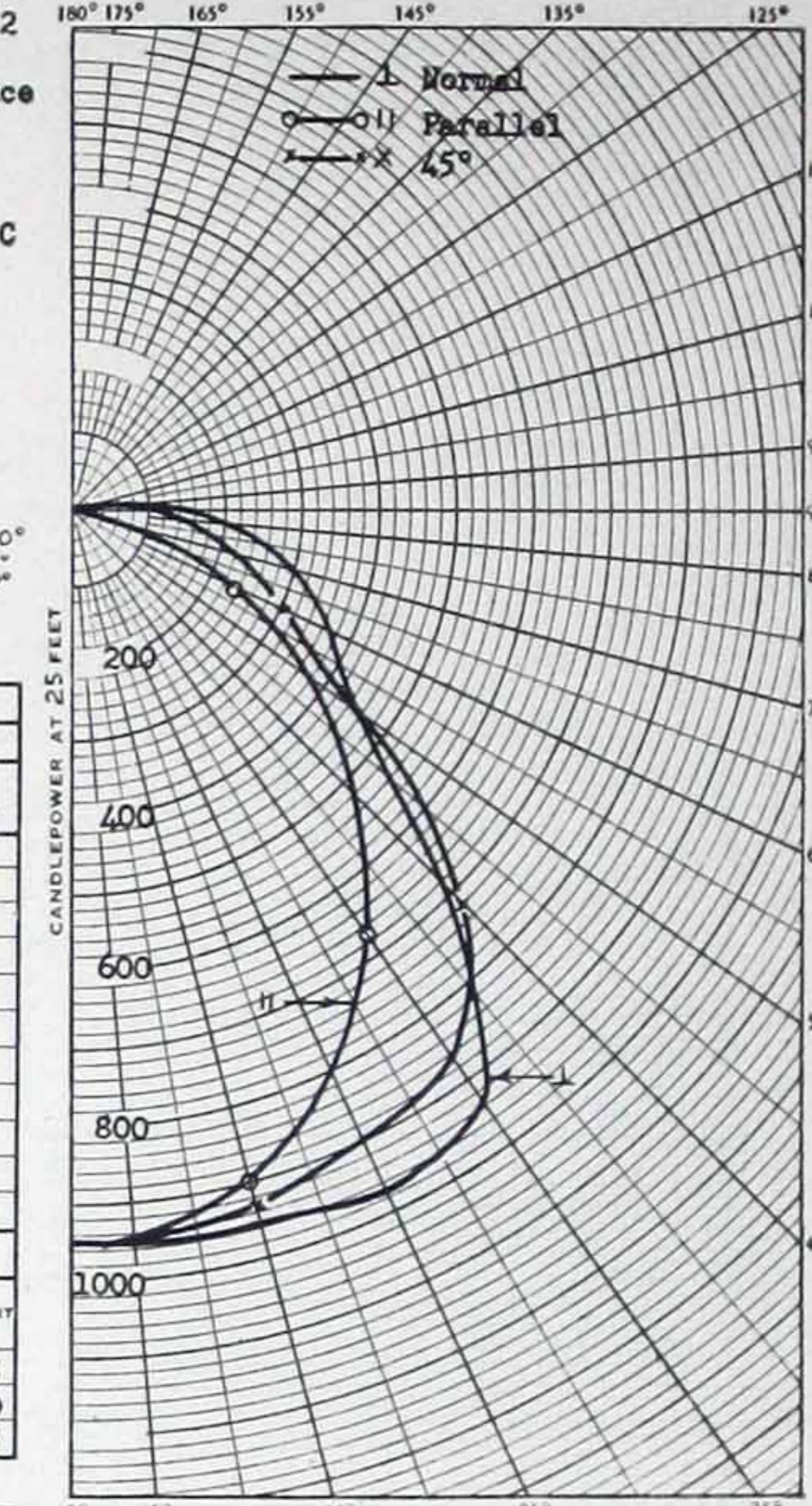
LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	2867	62.5
0°-40°	1291	28.0	90°-180°	57	1.0
0°-60°	2197	48.0	0°-180°	2924	63.5

LUMINAIRE BRIGHTNESS

Shielding Angles 0° 90° 180° 90° L
THE ARROWS INDICATE THE LOCATION AND ANGLE OF VIEW
C/Sq. In. 2.8 3.2 2.6 2.3 2.3 2.7 1.4 1.7 1.9 1.5 3.0

TESTED BY *L.H.* PLOTTED BY *D.H.* COMPUTED BY *C.W.* CHECKED BY *John* ISSUED *March 24, 1949*
REPORT APPROVED BY *William H. Heath* IN CHARGE OF TEST

NOTE: THIS REPORT IS THE PROPERTY OF THE CLIENT. ITS SIGNIFICANCE IS SUBJECT TO THE AdeQUACY AND REPRESENTATIVE CHARACTER OF THE SAMPLES AND TO THE COMPREHENSIVENESS OF THE TESTS PERFORMED. QUOTATIONS FROM OR CITATIONS OF THIS REPORT ARE AUTHORIZED ONLY SUBJECT TO E.T.L. REVIEW AND APPROVAL.

UTILIZATION FACTORS FOR
CAT NO. 9862-B TWO 40-WATT FLUORESCENT LUMINAIRE

CEILING	75%			50%			30%		
WALLS	50%	30%	10%	50%	30%	10%	30%	10%	
ROOM INDEX	C	O	E	F	F	I	C	I	Z
J. 0.6	0.31		0.27		0.25		0.30		0.27
I. 0.8	0.37		0.34		0.32		0.37		0.34
H. 1.0	0.41		0.38		0.36		0.40		0.37
G. 1.25	0.43		0.41		0.40		0.43		0.40
F. 1.5	0.46		0.44		0.41		0.44		0.43
E. 2.0	0.49		0.47		0.44		0.48		0.46
D. 2.5	0.53		0.50		0.48		0.51		0.47
C. 3.0	0.54		0.52		0.49		0.53		0.50
B. 4.0	0.56		0.53		0.52		0.55		0.52
A. 5.0	0.57		0.55		0.53		0.56		0.52

ROOM INDEX—See Page 58.

Suggested Maintenance Factor 0.70

REPORT

Electrical Testing Laboratories, Inc.

2 EAST END AVENUE AT 79TH STREET, NEW YORK 21, N.Y.

Report No. 330425

Order No. 19487-L

Plate No. 55636

Date March 3, 1949

CANDLEPOWER DISTRIBUTION
CAT. NO. 9863B RECESSED FLUORESCENT LUMINAIRE*

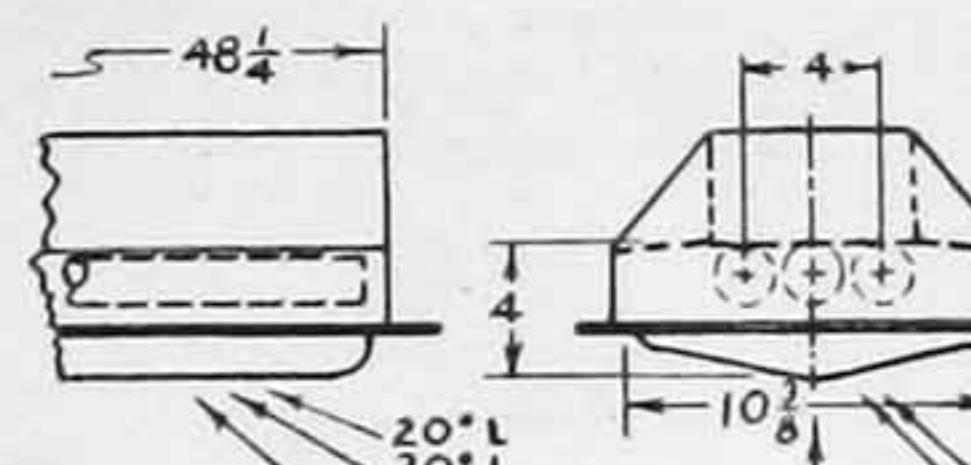
TYPE - D-90-90-3-R

Tested under Fleur-O-Lier Specifications

Rendered to Gill Glass and Fixture Company

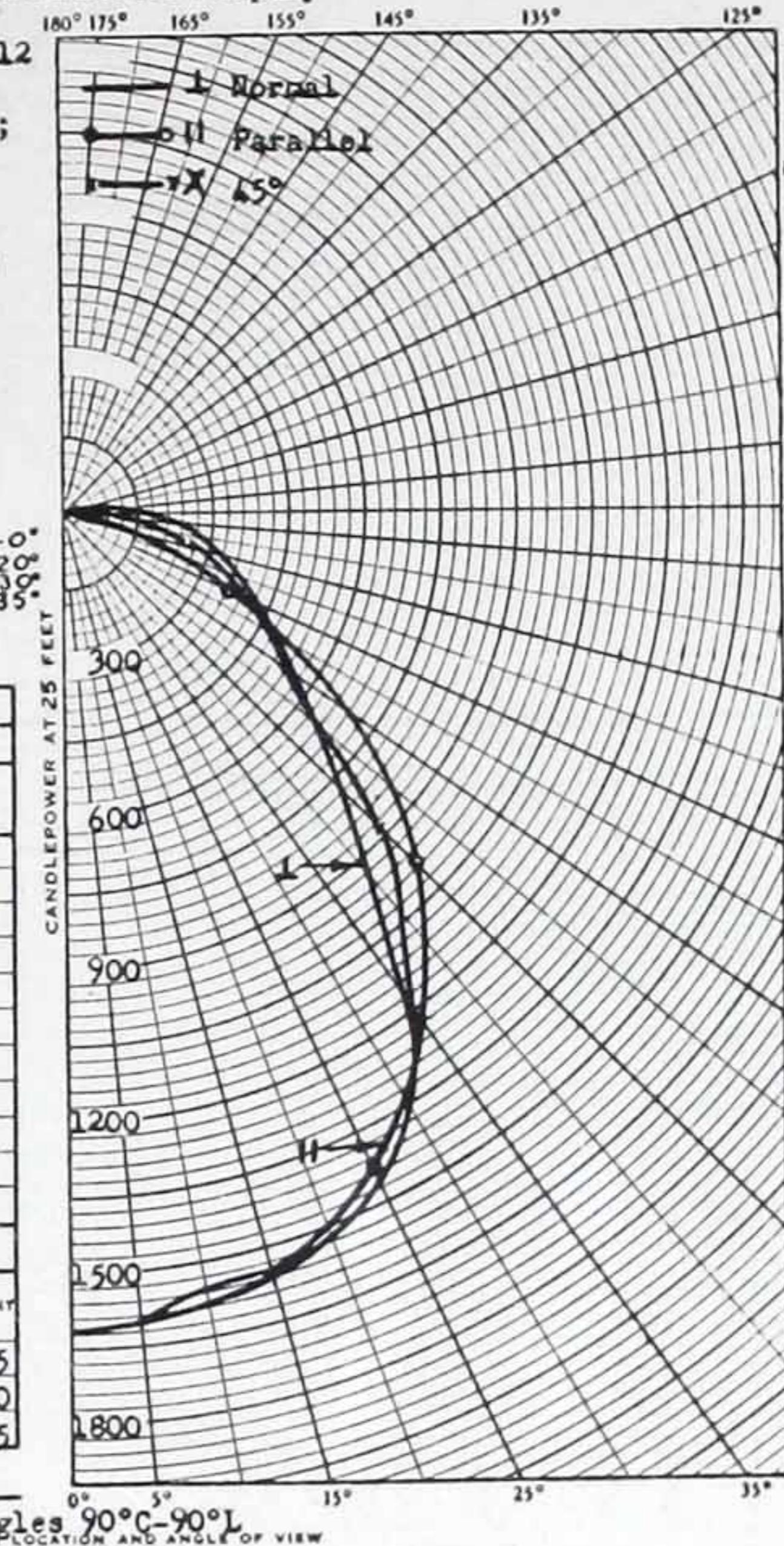
Lamps - Three - 40 Watts; 118 Volts; 2300 Lumens; T-12
White Fluorescent.
Unit - Synthetic enameled troffer, reflectance 0.85;
clear, curved, prismatic glass bottom.
Test - Candlepower distribution in three vertical
planes intersecting in the center of the unit.
Maximum temperature rise - 61°C; specified max. 65°C

*ETL No. 1766



LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS	MID-ZONE ANGLES	CANDLEPOWER AT 25 FEET	ZONAL LUMENS
180° (H)			90° (H)	102	
175°			85°	152	166
165°			75°	253	268
155°			65°	383	380
145°			55°	570	511
135°			45°	885	685
125°			35°	1210	760
115°	0	0	25°	1430	662
105°	10.9	12	15°	1550	438
95°	55.0	60	5°	1600	152
			0° (H)	1610	

LIGHT FLUX VALUES					
ZONE	LUMENS LUMINAIRE	PERCENT	ZONE	LUMENS LUMINAIRE	PERCENT
0°-30°			0°-90°	4022	58.5
0°-40°	2012	29.0	90°-180°	72	1.0
0°-60°	3208	46.5	0°-180°	1094	59.5



TESTED BY *AM* PLOTTED BY *JF* COMPUTED BY *SCW* CHECKED BY *SCW* ISSUED *March 3, 1949*
REPORT APPROVED BY *William F. Gill* IN CHARGE OF TEST

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UTILIZATION FACTORS FOR
CAT. NO. 9863-B THREE 40-WATT RECESSED FLUORESCENT LUMINAIRE

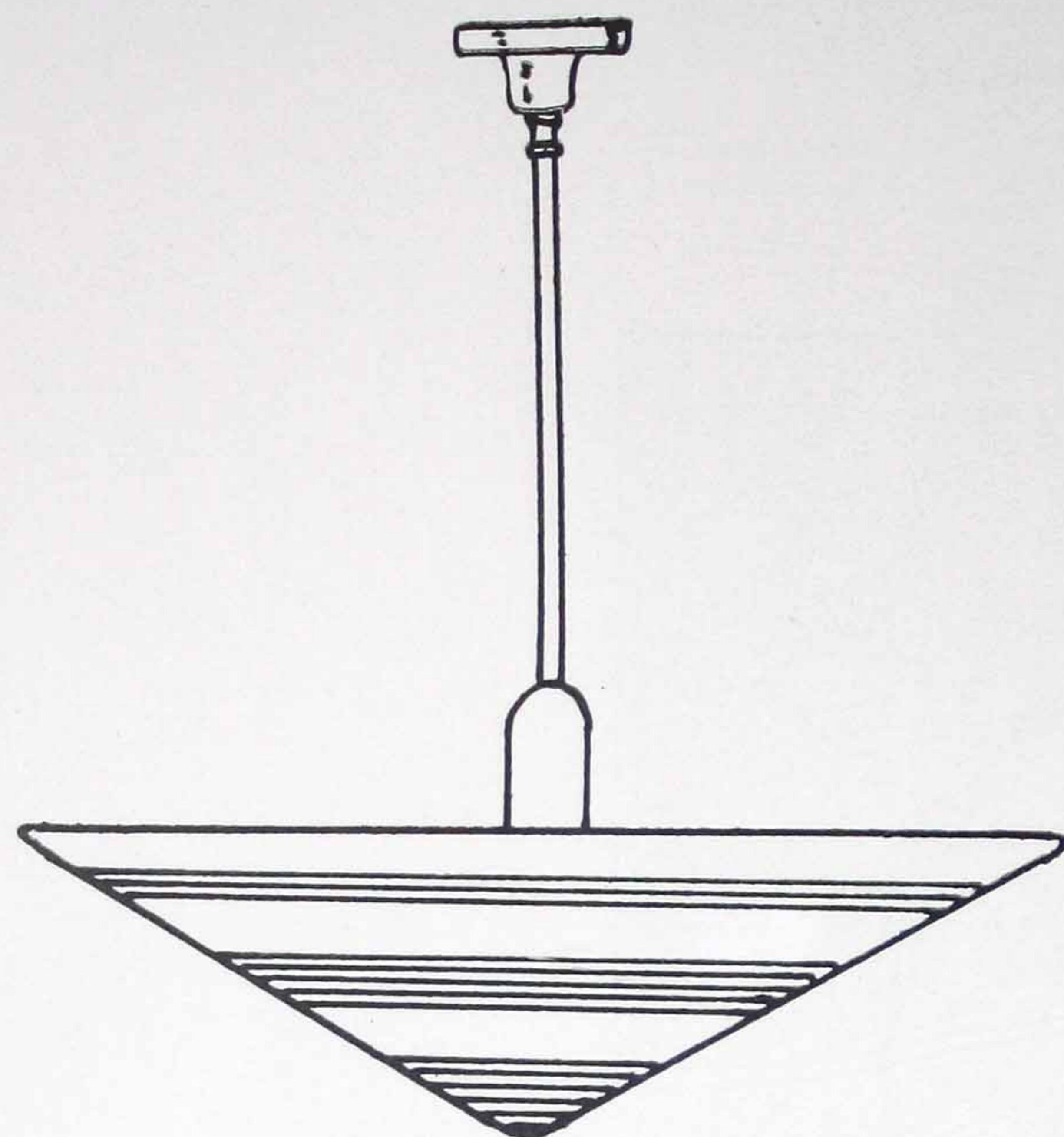
CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	C	O	E	F	F	I	C	E
J.	0.6	0.29	0.26	0.24	0.29	0.26	0.24	0.26
I.	0.8	0.35	0.32	0.31	0.35	0.32	0.30	0.32
H.	1.0	0.39	0.36	0.34	0.38	0.36	0.34	0.35
G.	1.25	0.41	0.39	0.38	0.40	0.38	0.37	0.38
F.	1.5	0.44	0.42	0.39	0.42	0.40	0.39	0.40
E.	2.0	0.46	0.45	0.42	0.46	0.44	0.42	0.43
D.	2.5	0.50	0.47	0.45	0.49	0.46	0.45	0.46
C.	3.0	0.51	0.49	0.46	0.50	0.48	0.46	0.47
B.	4.0	0.53	0.51	0.49	0.52	0.49	0.48	0.49
A.	5.0	0.54	0.52	0.51	0.53	0.51	0.49	0.49

ROOM INDEX—See Page 58.

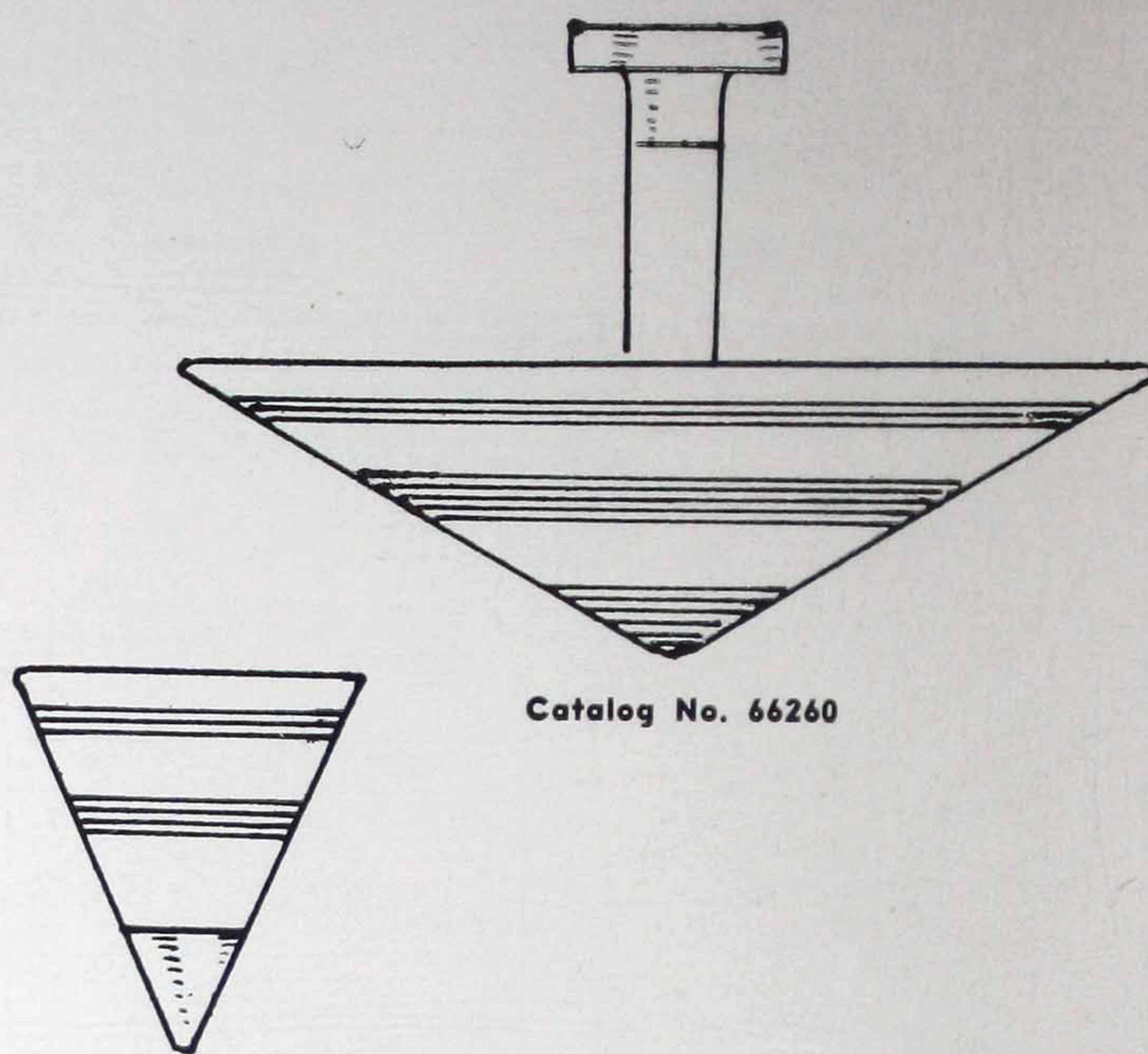
Suggested Maintenance Factor 0.70

GILL

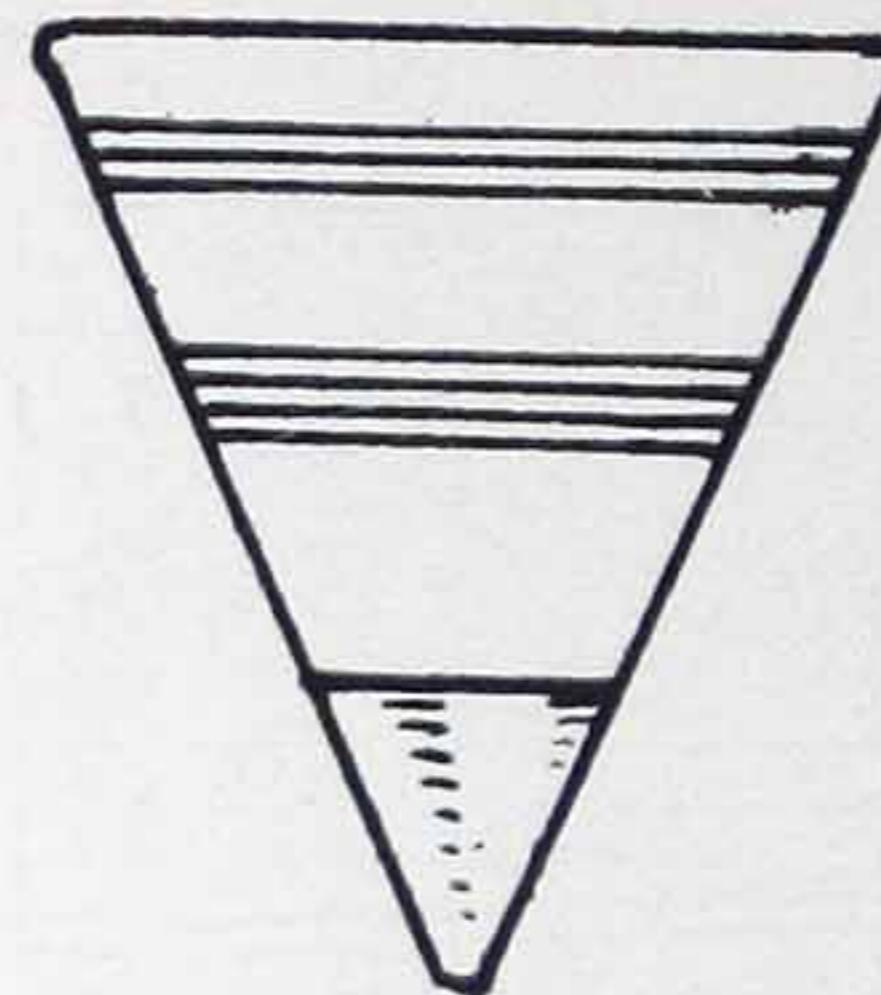
planned lighting luminaires



Catalog No. 66160



Catalog No. 66260



Catalog No. 66110

A luminous bowl, indirect lighting luminaire of white opal glass with ribbed design, having a fired-in reflecting surface. For use with incandescent lamps.

Pendant type units equipped with steel swivel-type hangers finished in plated satin chrome.

Ceiling type—steel fitter finished in plated satin chrome.

Wall bracket type is cast of aluminum and finished in a simulated polished chrome.

	CATALOG No.	O. A. SUSP.	BOWL DIA.	WATTAGE
PENDANT TYPE	66160	30"	16"	150- 200
	66180	33"	18"	300- 500
	66200	36"	20"	750-1000
CEILING TYPE	66260	12"	16"	150- 200
	66280	14"	18"	300- 500
	66300	17"	20"	750-1000
BRACKET TYPE	CATALOG No.	WIDTH	HEIGHT	WATTAGE
	66110	10 3/4"	11 1/2"	100

GILL planned lighting luminaires

ELECTRICAL TESTING LABORATORIES

NEW YORK, N. Y.

SPORT NO 151376

ORDER NO. 75634

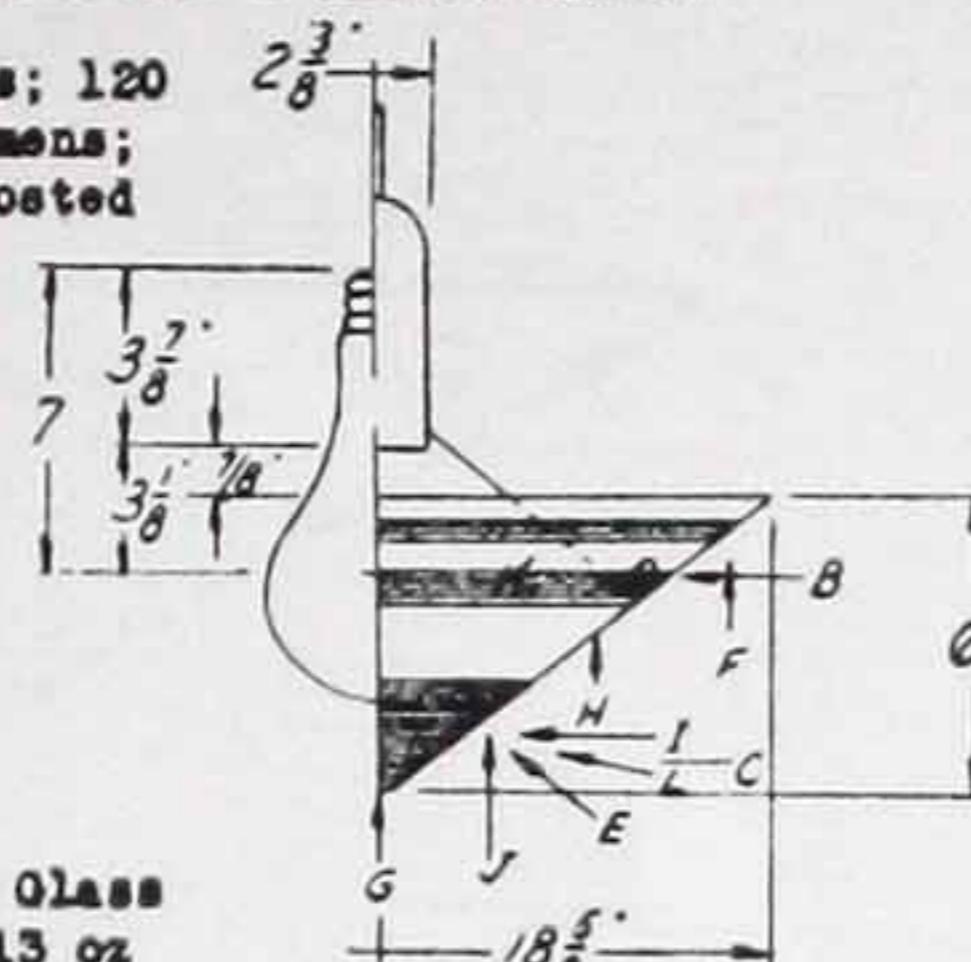
PLATE NO 3455

**CANDLEPOWER DISTRIBUTION
GLASS BASKIN®**

Rendered to GHL Glass & Fixture Company

One unit submitted by client and tested in accordance with client's instructions.

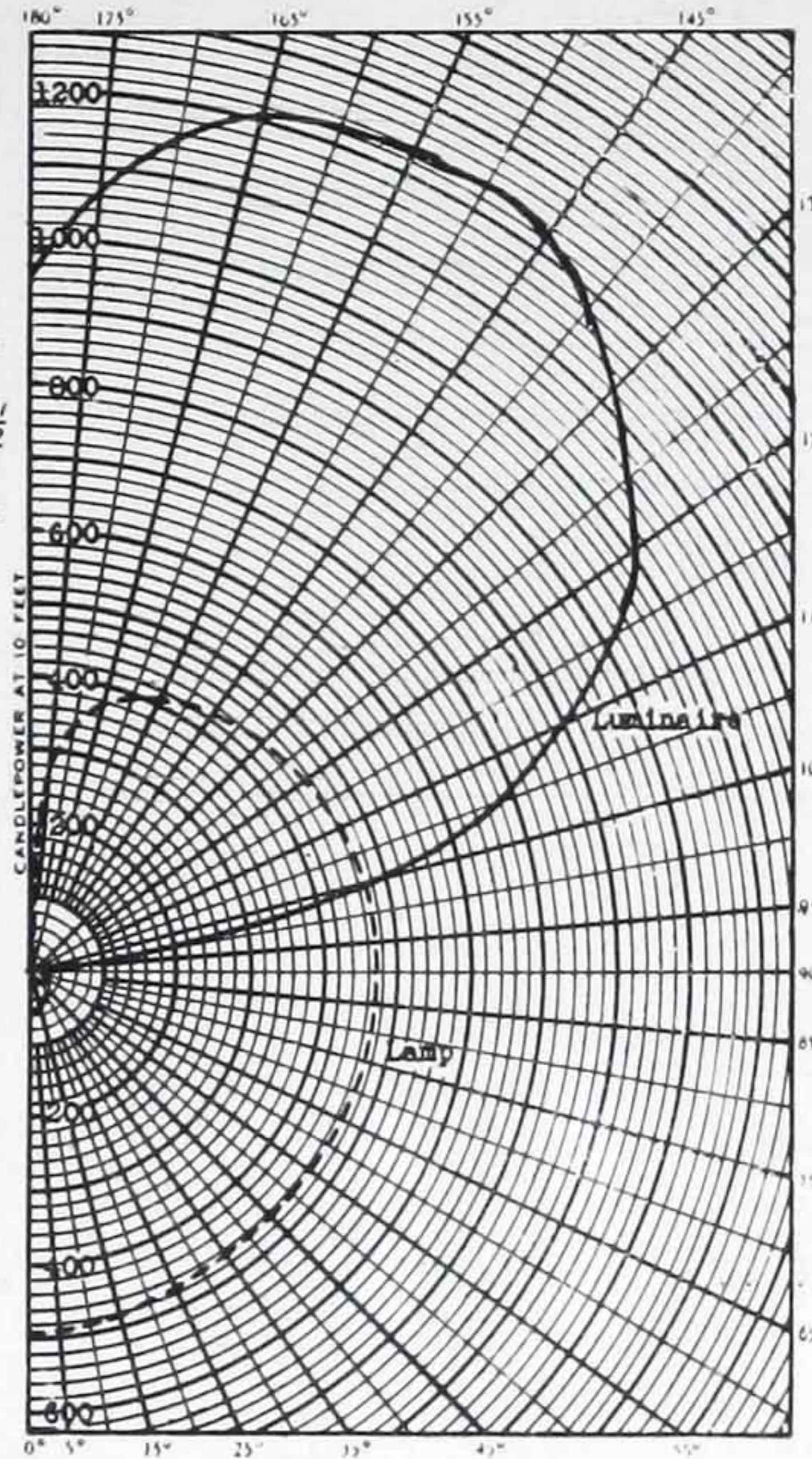
Lamp - 300
Volts; 576
PS35 Inside
Bulb; C-7A
Filament;
Mogul Base
General
Service.



White Diffusing Glass
Weight - 10 lb 13 oz

ILLUMINAIRE

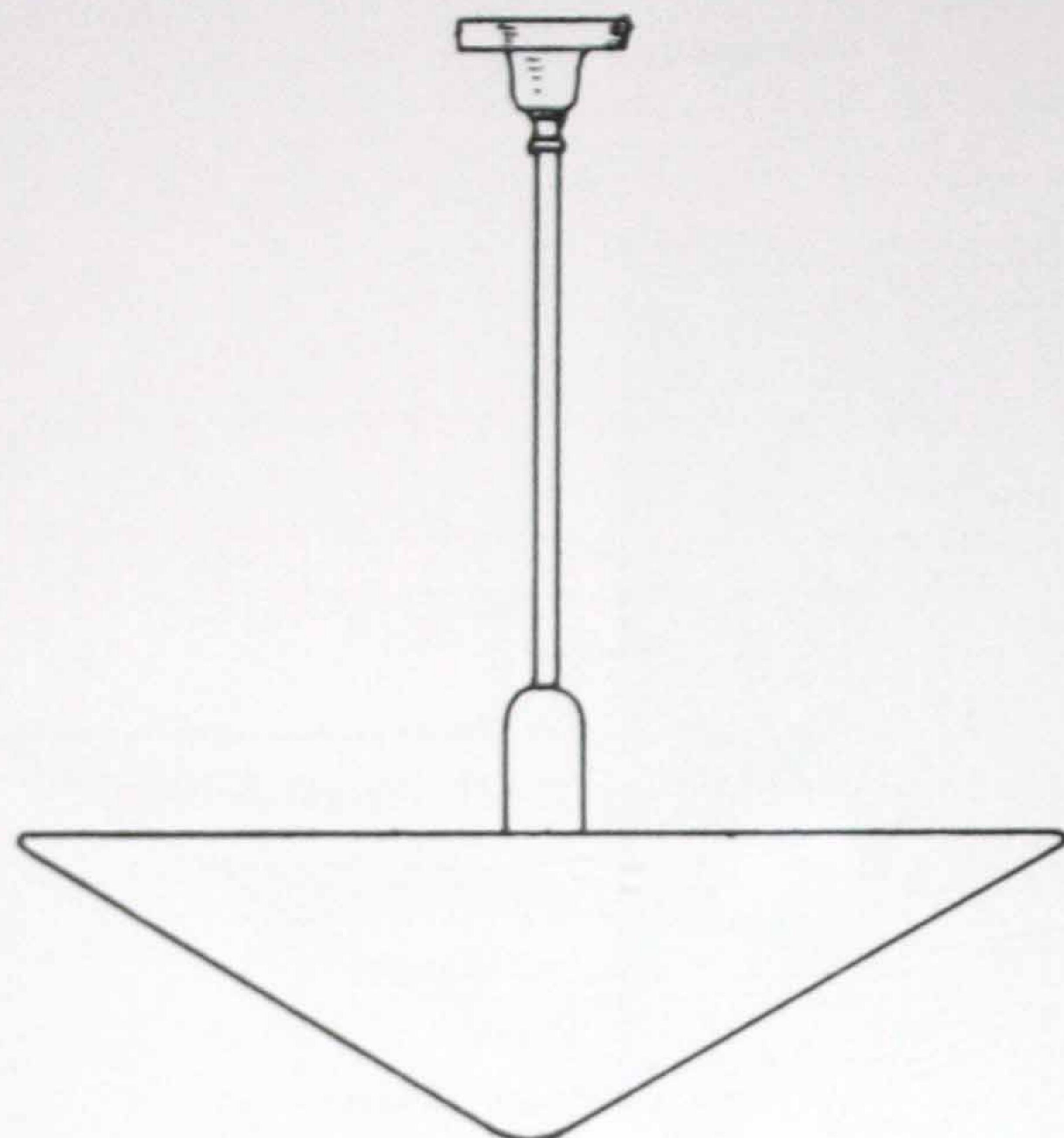
LUMINAIRE DISTRIBUTION DATA					
Mean Vertical					
MID ZONE ANGLES	CANDLESPOWER AT 10 FEET	ZONAL LUMENS	MID ZONE ANGLES	CANDLESPOWER AT 10 FEET	ZONAL LUMENS
180°:IN	980		90°:OUT	18.3	
175°	1060	101	85°	12.5	14
165°	1210	341	75°	17.2	18
155°	1230	570	65°	22.9	23
145°	1220	786	55°	28.1	25
135°	1120	868	45°	34.3	27
125°	1010	897	35°	39.8	25
115°	800	794	25°	45.4	21
105°	500	498	15°	48.4	14
95°	49.2	70	5°	50	5
			0° RADI	56	



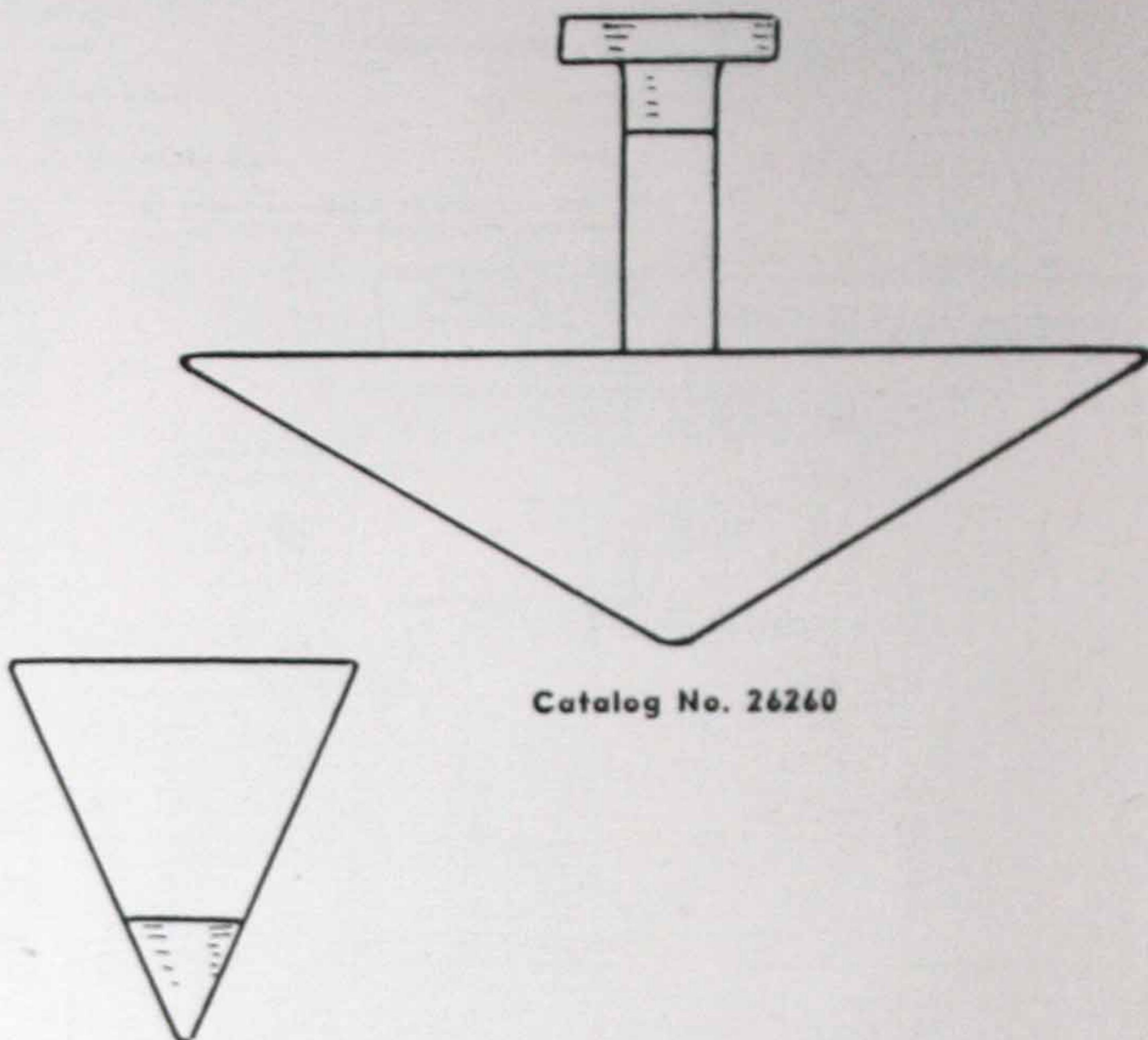
UTILIZATION FACTORS FOR CAT. NO. 66180 ONE 300-WATT INCANDESCENT LUMINAIRE

CEILING	75%			50%			30%	
WALLS	50%	30%	10%	50%	30%	10%	30%	10%
ROOM INDEX	C O	E F F I C I E N T	O	F	U T I L I	Z A T I O	N	O N
J. 0.6	0.17	0.14	0.12	0.13	0.11	0.09	0.07	0.06
I. 0.8	0.21	0.17	0.16	0.16	0.14	0.12	0.09	0.08
H. 1.0	0.24	0.21	0.18	0.18	0.15	0.14	0.11	0.09
G. 1.25	0.27	0.24	0.21	0.21	0.18	0.16	0.12	0.11
F. 1.5	0.30	0.27	0.23	0.23	0.20	0.18	0.13	0.12
E. 2.0	0.33	0.30	0.27	0.25	0.22	0.20	0.14	0.13
D. 2.5	0.37	0.33	0.31	0.27	0.25	0.23	0.16	0.15
C. 3.0	0.39	0.36	0.33	0.29	0.26	0.25	0.17	0.16
B. 4.0	0.43	0.40	0.37	0.31	0.30	0.28	0.19	0.18
A. 5.0	0.45	0.42	0.40	0.34	0.31	0.30	0.20	0.19

GILL planned lighting luminaires



Catalog No. 26160



Catalog No. 26260

Catalog No. 16110

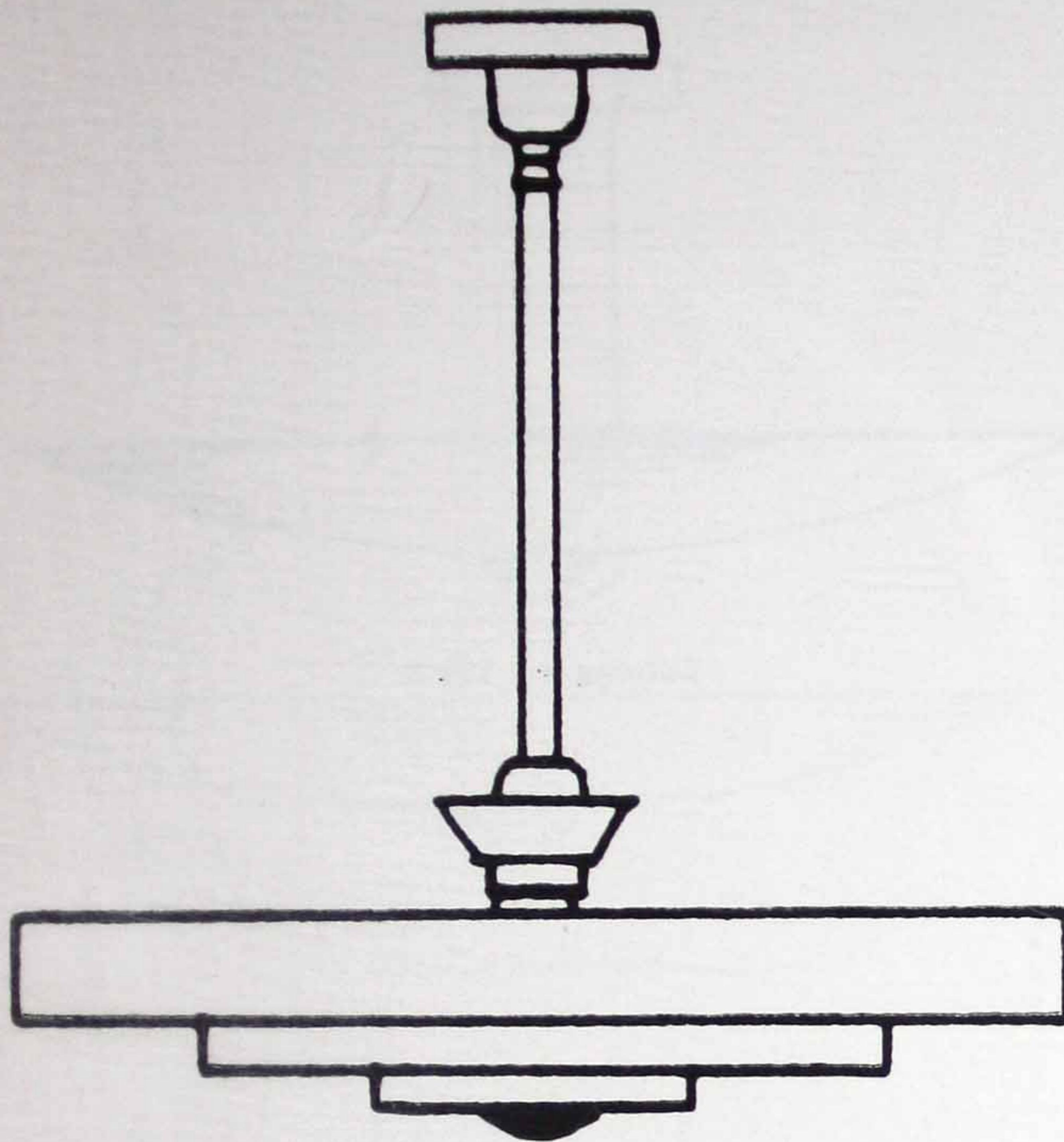
A semi-indirect lighting luminaire of white hyperion glass for use with incandescent lamps.

Pendant type units equipped with steel, swivel-type hangers finished in plated, satin chrome.

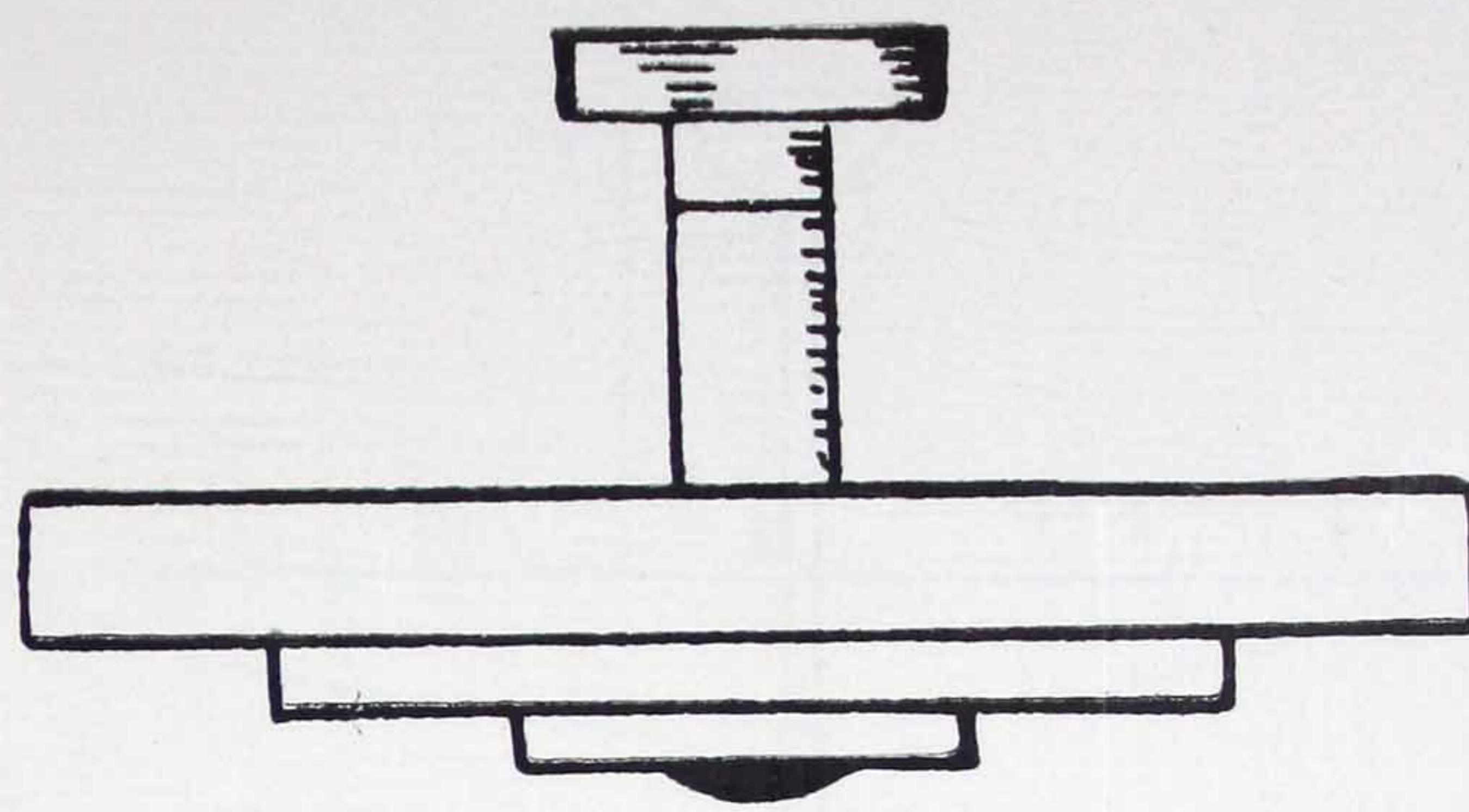
Ceiling type steel fitter finished in plated satin chrome.

Wall bracket type are cast aluminum and finished in a simulated polished chrome.

PENDANT TYPE	CATALOG No.	O. A. SUSP.	BOWL DIA.	WATTAGE
	26160	30"	16"	150-200
	26180	33"	18"	300-500
CEILING TYPE	26260	12"	16"	150-200
	26280	14"	18"	300-500
BRACKET TYPE	CATALOG No.	WIDTH	HEIGHT	WATTAGE
	16110	10 $\frac{3}{4}$ "	11 $\frac{1}{2}$ "	100



Catalog No. 715-P



Catalog No. 715-C

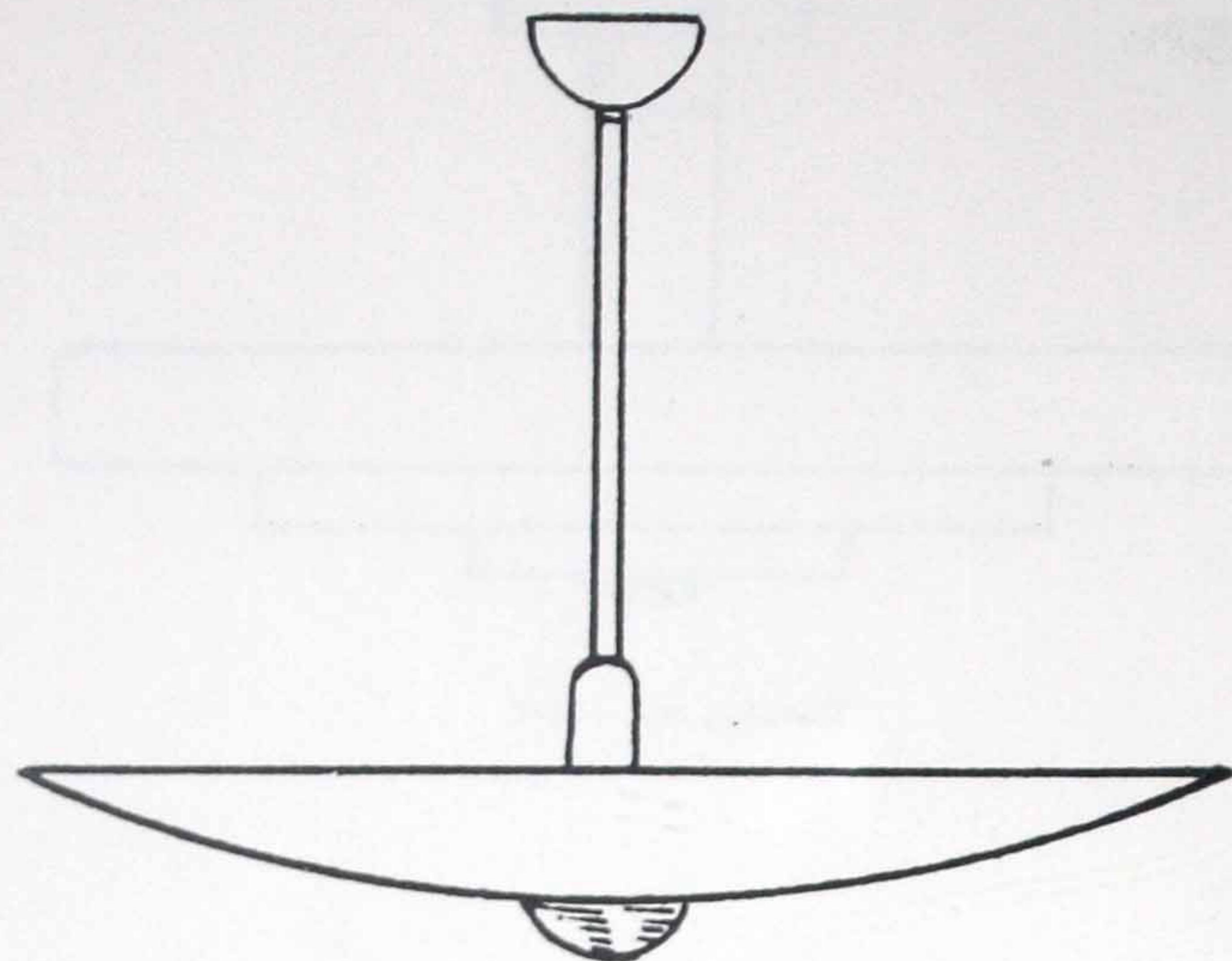
A shielded, steel, indirect lighting luminaire for use with the silver-bowl incandescent lamps.

Pendant type units suspended by means of swivel adjusting steel hangers. Finished in plated satin chrome. The three concentric steel louver rings are finished inside and out in high temperature baked-on white enamel. Lamps neck shield has a plated satin chrome finish.

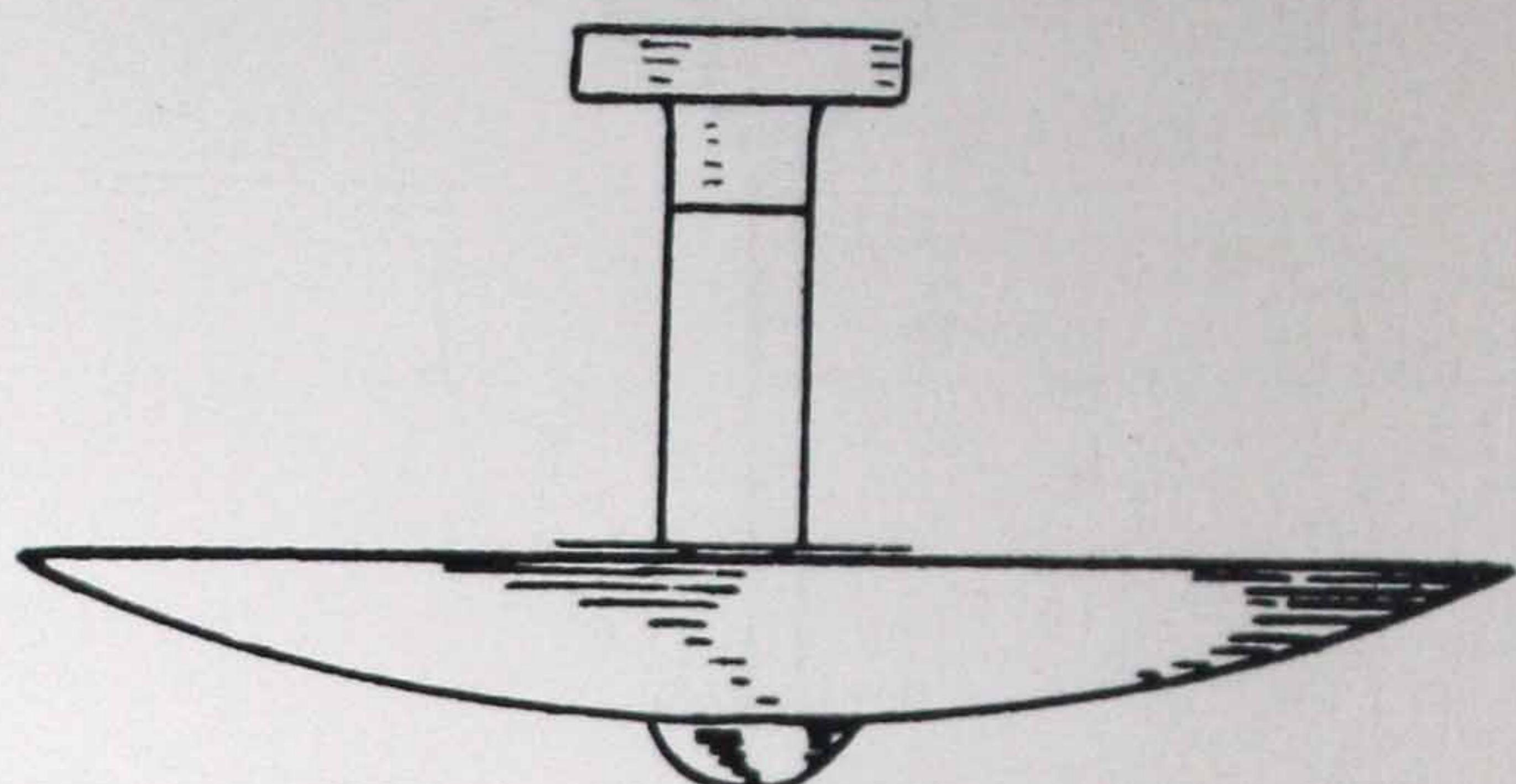
Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The three concentric steel louver rings are finished inside and out in high temperature baked-on white enamel.

PENDANT TYPE	CATALOG No.	O. A. SUSP.	RING DIA.	WATTAGE
	715-P	20"	15"	200
	720-P	30"	19"	300-500
CEILING TYPE	715-C	10"	15"	200
	720-C	12"	19"	300-500

GILL planned lighting luminaires



Catalog No. 516-P



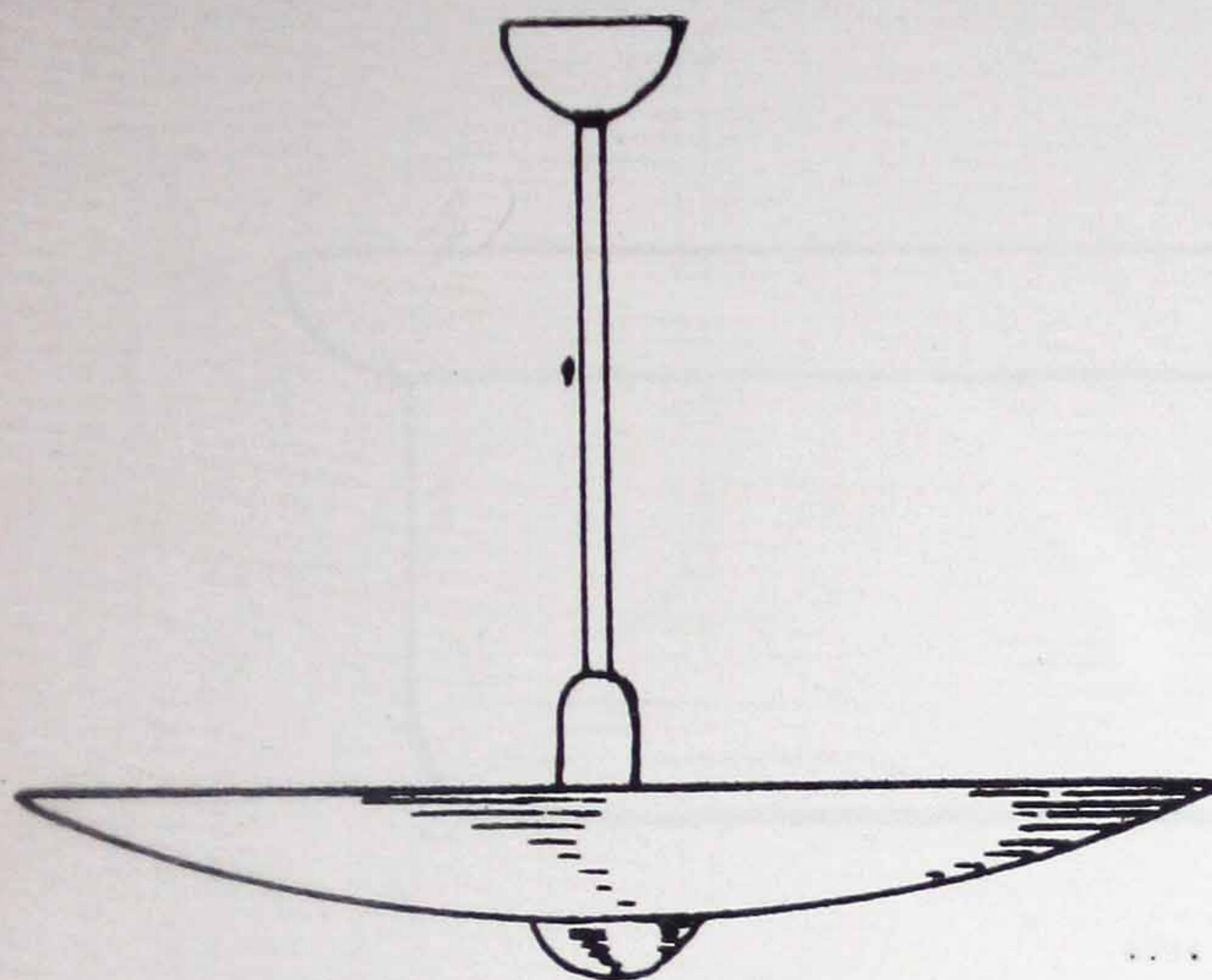
Catalog No. 516-C

A softly luminous, glass indirect lighting luminaire for use with the silver-bowl incandescent lamp.

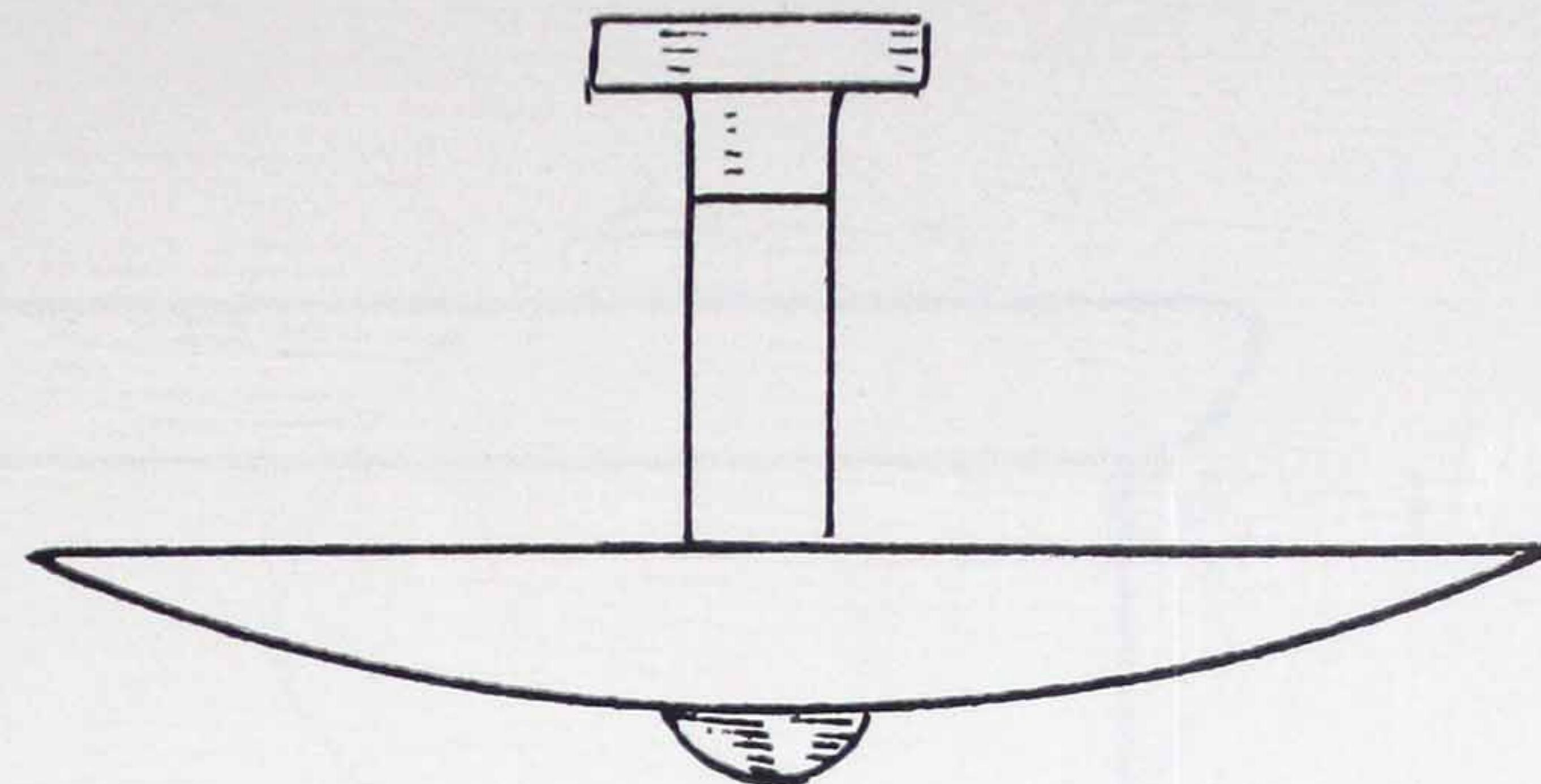
Pendant type units suspended by means of swivel adjusting steel hangers finished in plated satin chrome. The shallow glass bowls are made with a white inner reflecting surface. Lamp neck shields are finished in plated satin chrome.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The shallow glass bowls are made with a white inner reflecting surface.

PENDANT TYPE	CATALOG NO.	O. A. SUSP.	BOWL DIA.	WATTAGE
	516-P	20"	16"	150-200
	520-P	30"	20"	300-500
CEILING TYPE	516-C	10"	16"	150-200
	520-C	12"	20"	300-500



Catalog No. 816-P



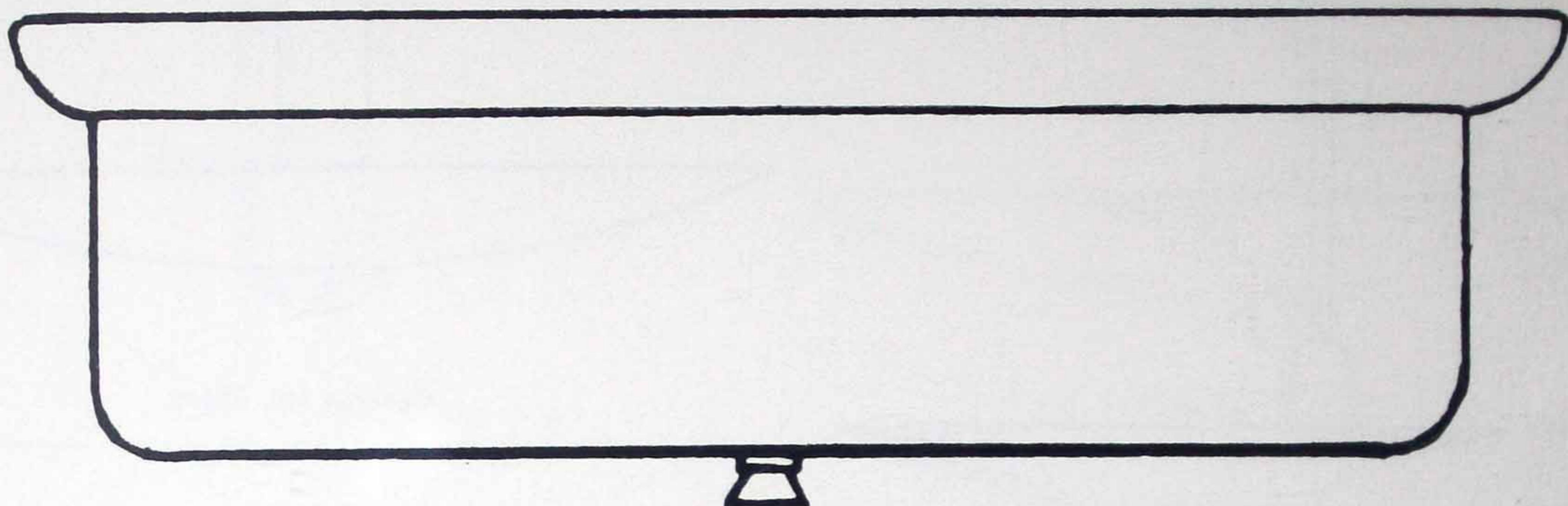
Catalog No. 816-C

An indirect luminaire for use with the silver bowl incandescent lamp.

Pendant type units suspended by means of swivel adjusting steel hangers finished in plated satin chrome. The shallow spun steel reflector is finished inside and out with high temperature baked on white enamel. Lamp neck shielded is finished in plated satin chrome.

Ceiling type units are suspended by means of an extension type collar finished in plated satin chrome. The shallow spun steel reflector is finished inside and out with high temperature "baked on" white enamel. Lamp neck shield is finished in plated satin chrome.

PENDANT TYPE	CATALOG No.	O. A. SUSP.	BOWL DIA.	WATTAGE
	816-P	20"	16"	150-200
	820-P	30"	20"	300-500
CEILING TYPE	816-C	10"	16"	150-200
	820-C	12"	20"	300-500



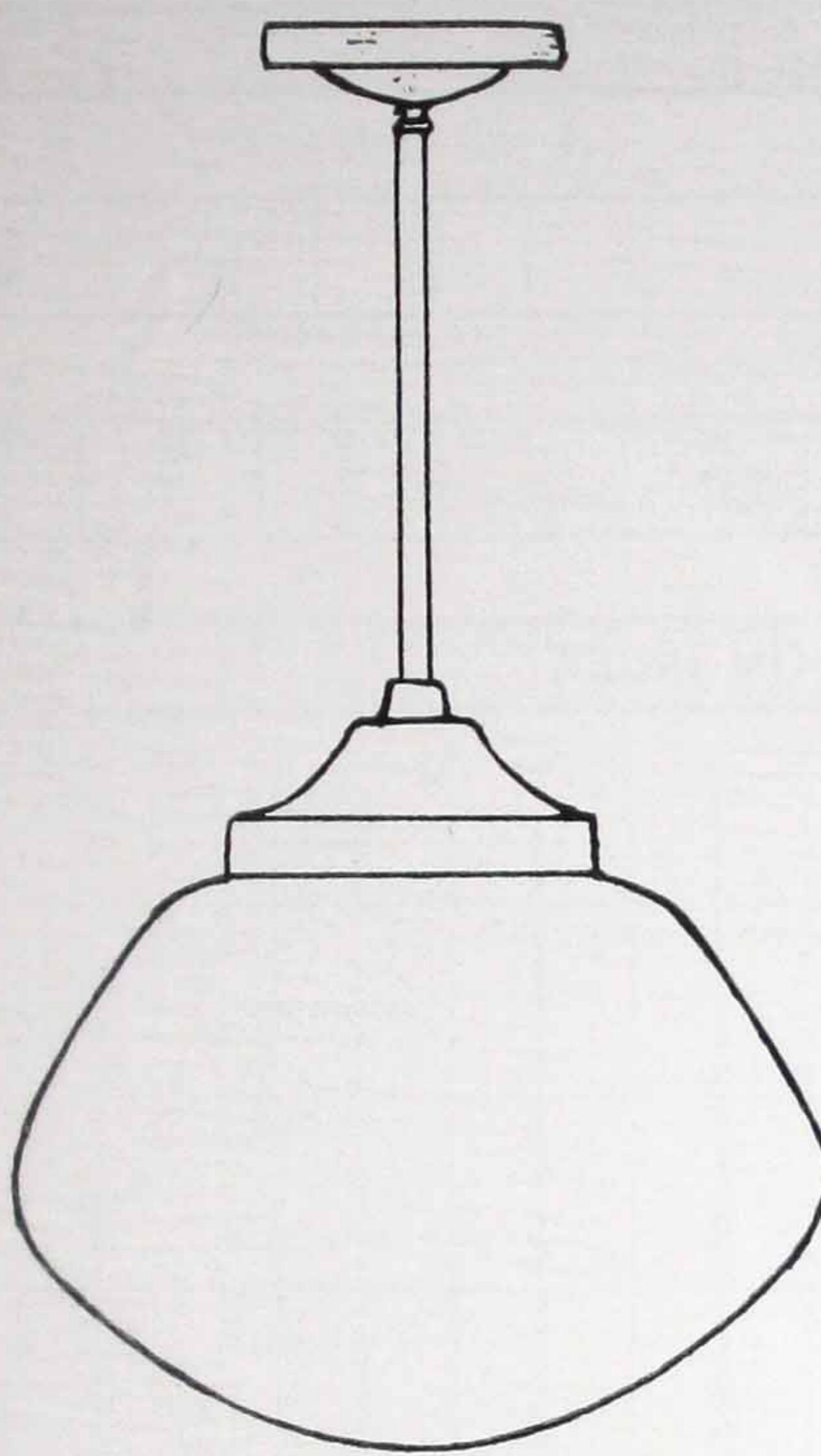
Catalog No. 6508

A ceiling, drum type general diffuse luminaire of Hyperion, highly efficient white opal glass for use with small wattage incandescent lamps.

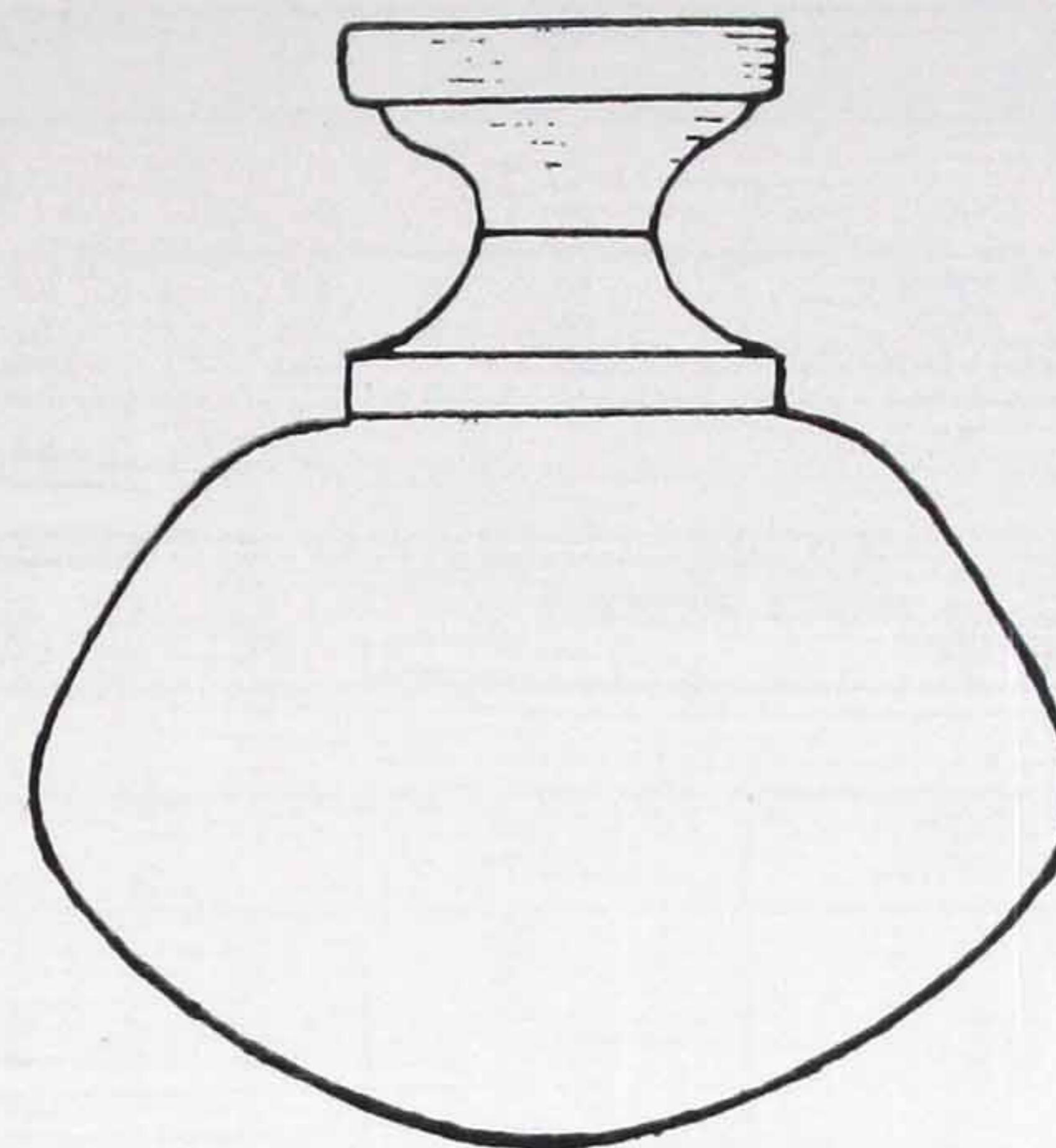
Ceiling pan fitter made of steel and finished in plated polished chrome.

Glass secured to fitter by means of bottom polished chrome knob.

CATALOG No.	DIA. CEILING FLANGE	GLASS		NUMBER OF SOCKETS
		DIA.	DEPTH	
6508	9 1/2"	8"	4 3/8"	2
6510	11 1/2"	10"	4 5/8"	2
6512	13 1/2"	12"	5 1/8"	2
6514	15 1/2"	14"	5 5/8"	3



Catalog No. 7010-P



Catalog No. 7010-C

A pendant or ceiling type general diffuse luminaire of Hyperion, highly efficient white opal glass for use with incandescent lamps.

Both pendant and ceiling type hangers are made of steel and finished in plated satin silvertone.

Canopy diameters 5" on Pendant types, 6" on ceiling types. Knockouts for canopy switches on both types.

PENDANT TYPE

CAT. NO.	O. A. LENGTH	GLASS		WATT- AGE
		DIA.	DEPTH	
7010-P	24"	8½"	7"	75
7030-P	24"	10"	7¾"	100
7040-P	24"	12"	8½"	100-150
7050-P	24"	14"	9½"	150-200
7060-P	24"	16"	11½"	200-300
7070-P	24"	18"	12"	300-500

CEILING TYPE

CAT. NO.	O. A. LENGTH	GLASS		WATT- AGE
		DIA.	DEPTH	
7010-C	5½"	8½"	7"	75
7030-C	5½"	10"	7¾"	100
7040-C	5½"	12"	8½"	100-150
7050-C	5½"	14"	9½"	150-200
7060-C	5½"	16"	11½"	200-300
7070-C	5½"	18"	12"	300-500

**First
Step**

Select proper ROOM INDEX from the following table—using room dimensions of your particular job.

INDEX SYMBOL	0.6 A	0.8 B	1.0 C	1.25 D	1.5 E	2.0 F	2.5 G	3.0 H	4.0 I	5.0 J
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CEILING HEIGHT

INDIRECT AND SEMI-INDIRECT	9' to 9½'	10' to 11½'	12' to 13½'	14' to 16½'	17' to 20'	21' to 24'	25' to 30'	31' to 36'	37' to 50'
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MOUNTING HEIGHT

DIRECT, SEMI-INDIRECT, GENERAL DIFFUSE, DIRECT-INDIRECT LUMINAIRES	7' to 7½'	8' to 8½'	9' to 9½'	10' to 11½'	12' to 13½'	14' to 16½'	17' to 20'	21' to 24'	25' to 30'
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ROOM WIDTH	ROOM LENGTH	ROOM INDEX									
9 (8½-9)	8- 10 10- 14 14- 20 20- 30 30- 42 42- up	H H G G F E	I I H G F	J J H G I	J J I H J	J J I H J	J J I H J	J J I H J	J J I H J		
10 (9½-10½)	10- 14 14- 20 20- 30 30- 42 42- 60 60- up	G G F F E E	H H G G F F	I I H G G F	J J H H H H	J J I I I H	J J I I I I	J J I I I I	J J I I I I		
12 (11-12½)	11- 14 14- 20 20- 30 30- 42 42- 60 60- up	G F F E E E	H G G F F E	I H G G F F	I H H G G G	J J I H H H	J J I I I I	J J I I I I	J J I I I I		
14 (13-15½)	13- 20 20- 30 30- 42 42- 60 60- 90 90- up	F E E E D D	G F F E E E	H G F F E E	H H G F F F	I I H H G F	J J I I H G	J J I I I I	J J I I I I	J J I I I I	
17 (16-18½)	16- 20 20- 30 30- 42 42- 60 60-110 110- up	E E D D D C	F F E E E E	G F F E E E	H G G F F E	I H H G G F	J I H G G G	J J I I H G	J J I I H I	J J I I H I	
20 (19-21½)	20- 30 30- 42 42- 60 60- 90 90-140 140- up	D D D C C C	E E D D D D	F E E D D D	G F F E E E	H G F F F F	I H G G F F	J I I H H H	J I I H H H	J I I H H H	
24 (22-26)	22- 30 30- 42 42- 60 60- 90 90-140 140- up	D C C C C C	E D D D C C	E D D D D D	F F E E E E	G G F F E E	H G G F F F	I I H H G G	I I H H G G	I I H H G G	
30 (27-33)	27- 42 42- 60 60- 90 90-140 140-180 180- up	C C B B B B	D C C C C C	D C C C C C	E D D D D D	F F E E E E	G F F E E E	H G F F F F	I H G F F F	I H G G G G	
36 (34-39)	34- 42 42- 60 60- 90 90-140 140-200 200- up	B B A A A A	C C B B B B	D C C C C C	E D C C C C	F E D C C C	F F E D D D	F F E E E E	H G F F F F	I H G F F F	I H G G G
42 (40-45)	40- 60 60- 90 90-140 140-200 200- up	A A A A A	B B B A A	C B B B A	C B B B A	C C C C C	E D D D D	F E D D D	G F E E E	H G F F F	I H G G
50 (46-55)	46- 60 60- 90 90-140 140-200 200- up	A A A A A	A A A A A	B B B A A	B B B A A	C C C C C	D C C C C	E D D D D	F F E E E	G F F F F	H G F F F
60 (56-67)	56- 90 90-140 140-200 200- up	A A A A	A A A A	A A A A	A A A A	B B B B	C C C C	D C C C	E D D D	F F E E E	G F F F F
75 (68-90)	68- 90 90-140 140-200 200- up	A A A A	A A A A	A A A A	A A A A	A A A A	B B B B	C C C C	D C C C	E D D D	F F E E E
90 or more	90-140 140-200 200- up	A A A	A A A	A A A	A A A	A A A	A A A	A B B	B B B	C C C	D D D

Second Step

Turn to the Catalog page illustrating the Gill luminaire you wish to use; and determine the Coefficient of Utilization from the table shown using the symbol selected from step No. 1.

Third Step

A suggested maintenance factor is listed for each Gill luminaire (see Catalog page). This is an average factor and should be decreased in value if the maintenance conditions are exceptionally poor.

(a) If you wish to determine the number of luminaires to use to provide a pre-determined number of foot-candles, use this formula:

$$\text{LAMP LUMEN REQUIRED} = \frac{\text{AREA (SQUARE FEET)} \times \text{FOOT-CANDLES}}{\text{UTILIZATION FACTOR} \times \text{MAINTENANCE FACTOR}}$$

$$\text{NUMBER OF LAMPS} = \frac{\text{TOTAL LAMP LUMENS}}{\text{LUMENS PER LAMP (SEE TABLE BELOW)}}$$

$$\text{Number of Luminaires Required} = \frac{\text{TOTAL NUMBER OF LAMPS}}{\text{NUMBER LAMPS PER LUMINAIRE}}$$

Final Step

(b) If you wish to determine the number of foot-candles resulting from a known number of lumens, use this formula:

$$\text{FOOT CANDLES} = \frac{\text{LAMP LUMENS} \times \text{UTILIZATION FACTOR} \times \text{M.F.}}{\text{AREA (SQUARE FEET)}}$$

FLUORESCENT			
LAMP	WATTS	COLOR	LUMENS
T-12	40	3500° white	2300
T-12	40	4500° white	2100
72" T-8 200 ma	38	3500° white	2250
72" T-8 300 ma	51	3500° white	2850
96" T-8 200 ma	51	3500° white	3050
96" T-8 300 ma	69	3500° white	3950
96" T-12 425 ma	75	4500° white	4574

INCANDESCENT		
LAMP	WATTS	LUMENS
I.F.	100	1630
I.F.	150	2600
I.F.	300	5650
I.F.	500	9950
I.F.	750	15,500
I.F.	1000	21,500

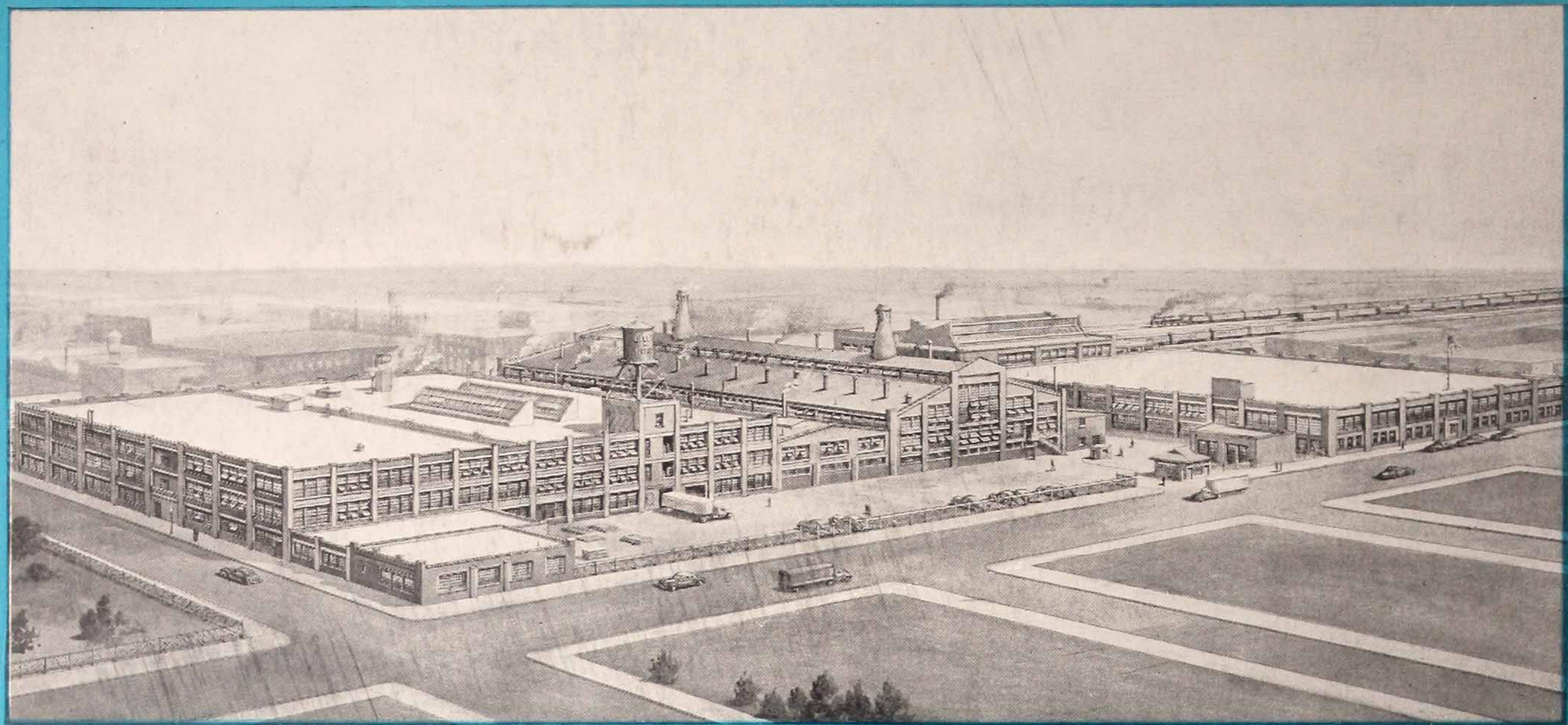
GILL *index*

CATALOG NUMBER	PAGE NUMBER	CATALOG NUMBER	PAGE NUMBER	CATALOG NUMBER	PAGE NUMBER
1	32	720-P	53	9833-E	38
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516-P	54	7070-P	57	66280	50
520-C	54	9802-E	36	66300	50
520-P	54	9802-S	36	SL-98028-B	37
715-C	53	9803-B	36	SL-98028-E	37
715-P	53	9803-E	36	SL-98528-B	41
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CCA



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